

The background of the cover is a dense, overlapping collage of various items related to digital publishing. It includes numerous open and closed books, some with visible text and images on their pages. Interspersed among the books are several e-readers and tablets, some displaying text and others showing graphical interfaces. The overall effect is a sense of a vast, interconnected digital library or a collection of multimedia content.

Creating Great Ebooks Using Jutoh

Dr Julian Smart



ANTHEMION

Creating Great Ebooks Using Jutoh

A complete guide to making ebooks for Kindle, iPad, Sony Reader, Nook, Kobo and more, from new project to publication

by Julian Smart

Published by Anthemion

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Edition 1.8

Note that this guide references Jutoh version 1. For a guide to Jutoh 2, which has many more features, please visit the Jutoh web site: <http://www.jutoh.com/bookv2.htm>



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From the Horse's Mouth

“We hit the Google trail in search of e-book enlightenment. If it wasn't for Jutoh, we'd still be in the dark.”

– Australian Financial Review, July 27th, 2010 (*“Jutoh writes a new chapter in the manual of e-publishing”*)

“Jutoh is a remarkable program. In a complex field it offers a simple-to-use interface with generous options and faultless performance. It accepts a wide variety of input files and can create MOBI, EPUB and other standard ebook formats. It compiles and checks projects and links to preview software. It also allows for extensive metadata entry. All this in a neat and tidy presentation. When the only other options seemed to be an expensive and unnecessary outlay on something like Adobe In-Design, this came out of the blue and has answered all our prayers. I love it.”

– Ellis Delmonte, Hawkwood Books, Lincoln

“I just wanted to say your software is bloody genius. The Smashwords conversion went brilliantly... Jutoh has been a God-send and the learning curve will really pay off in the future. Having come across many many forums where new digital authors are having a painful birth in converting to the digital platform, Jutoh is something that many of them don't know about. Your software will make a difference. My book is now live on the Amazon and Smashword sites. It reaches Apple in two weeks. Your software helped make that happen.”

– Will B.

“Jutoh is way ahead of any of the ebook editors – and I have tried a number of them, even Adobe's InDesign.”

– Dan R.

“I just wanted to write and thank you a thousand times over for coming up with Jutoh... I can't begin to tell you how much simple it has made my life. Create once and send out everywhere in all formats is a Godsend, and I have been able to supplement my own titles with those of others, through my publishing company. I learned a lot about proper formatting for eBooks, taking into consideration the various formats, from ePub to ODT and even plain text. I dreaded the thought of manually going through each one, only to have to wade through the inevitable feedback, in order to fix everything by trial and error. In a single evening, I was able to submit to both B&N and Smashwords, with flying colors, no less! Thank you for putting such a wonderful product together.”

– Dallas T.

“Thanks again for all the help. Jutoh is by far the best epubbing tool I've used so far!”

– Blaise M.

“Simply put, Jutoh is the best conversion tool out there. The user interface is very friendly, there are many extras built-in, and the documentation is thorough. Jutoh can take a very large book with many images and successfully convert to multiple ebook formats that pass the epub validation checks. Anyone who has a book in MS Word can save it to OpenOffice (which is free, and has a built-in PDF capability amongst other features) and import it to Jutoh. I have found the Jutoh developer to be extremely accessible, responsive and eager to receive feedback. This is a high-end, professional piece of software that is practically a give-away!”

– Kathy M.

“I wanted to thank you so much for the Jutoh tool! It's been wonderful! I was so pleased with how it worked in creating a mobipocket Kindle edition of a book I've been writing.”

– Joshua D.

“Thank you for another quick, thorough response! Your customer service is amazing.”

– Kristine K.

Preface

Bring on the revolution

The publishing world is currently in turmoil largely thanks to the freedoms and opportunities that ebooks bring. Simultaneously freeing consumers from the physical realities of print and paper, and freeing authors from the gatekeeper mentality that has held back much good content (as well as less literary output, to be sure), the ebook phenomenon has just hit the mainstream now that ebook reader gadgets have become practical and affordable. Kindles and Sony Readers have become popular Christmas presents and each year will see more choice on offer.

To join the revolution, authors and publishers need to provide ebooks in essentially two popular formats – Epub and Mobipocket (Kindle). (Other formats, such as PDF, are sometimes used for creating ebooks but PDFs play less well on reader hardware and cannot be reformatted to adapt to reader constraints. While Jutoh can help with creating PDFs, we will concentrate on the two standard ebooks formats.) To some extent, creating an Epub or a Kindle file is a black art. You'll find blogs and forums full of advice on using obscure XML and HTML markup. You'll read about the hoops people are jumping through to get this or that formatting correct on iBooks or Kindle or the Sony Reader. You may see advice on editing XML to create a table of contents before adding it to an Epub zip file. For the uninitiated trawling through this information, the prospect of creating an ebook can look frankly terrifying.

Fortunately, with Jutoh it doesn't have to be that way. You don't have to deal with OPF files or HTML, unless your requirements are very complex; you can simply use a friendly editor tool that optimizes its output to take into account the whims of a variety of ebook reader software and hardware. Instead of hiring someone to convert your book, you can save money by using Jutoh to do it yourself – empowering you the author, in the spirit of the ebook revolution. (If you're a publisher or consultant helping an author create ebooks, then you'll appreciate the time-saving qualities of Jutoh just as much.) This book is here to help you learn and get the most out of Jutoh, bringing together wisdom that you might otherwise have to glean from around the web. Sometimes even Jutoh can't entirely smooth over differences between formats, publisher requirements, and ebook reader behaviour, and these areas are documented as much as possible to save you frustration.

If you are a Jutoh user, this guide will be an adjunct to the software (version 1.56 and above) and the built-in user manual, which contains more detail, for example on each dialog presented by Jutoh. If you are thinking about using Jutoh, or are using a different method to create your ebooks, I hope you'll still find some useful tips in these pages. Happy authoring!

Note that this guide references Jutoh version 1. For a guide to Jutoh 2, which has many more features, please visit the Jutoh web site: <http://www.jutoh.com/bookv2.htm>

Julian Smart, March 2014

About the author

Dr Julian Smart is technical director of Edinburgh-based Anthemion Software. He is the founder of the [wxWidgets](#) project, a popular construction kit for applications that run on a variety of computer

platforms. Julian is the creator of Jutoh, and, with his novelist wife Harriet Smart, the [Writer's Café](#) toolkit for writers, as well as the [DialogBlocks](#) and [HelpBlocks](#) tools for programmers.

How this book is structured

In [Chapter 1: Introduction to Ebooks and Jutoh](#), we start off with a gentle amble around the concept of the ebook and how Jutoh relates to it. You'll get an overview of the steps involved in overall ebook creation, with reference to those steps that Jutoh helps with.

In [Chapter 2: Getting Started](#), we run through a simple example of creating a project and compiling an ebook. We'll keep it very brief so you can see that Jutoh makes the simple things simple to achieve.

In [Chapter 3: The Jutoh User Interface](#), we'll take a look at the main elements of the Jutoh window, so you'll know your way around. We also look at how you can customise the interface, for example defining new keyboard shortcuts and a 'favourites' menu.

In [Chapter 4: Working With Projects](#), we describe what a project consists of, how to add documents to a project, and other aspects of controlling your Jutoh project.

In [Chapter 5: Importing Files](#), we describe in detail the types of file that can be imported and how to tell Jutoh to split it into sections.

In [Chapter 6: Editing and Formatting Content](#), you will learn all about the Jutoh editor and how to use it to edit and format text and pictures.

In [Chapter 7: Editing Your Book's Metadata](#), we look at 'metadata', the information that describes your book to the ebook reader.

In [Chapter 8: Editing Your Cover Design](#), we put Jutoh's built-in cover designer under the microscope. If you will only be using previously prepared artwork for your book(s), you can skip this chapter.

In [Chapter 9: Understanding Configurations](#), the important concept of 'configuration' is explained and each configuration property is explained in detail.

In [Chapter 10: Troubleshooting Your Book](#), we explain the ways in which you can check and improve your book after compiling it. If you find problems with your book, this chapter is your first port of call.

In [Chapter 11: Working With Pictures](#), we describe various aspects of importing pictures and specifying how they will appear in the generated book.

In [Chapter 12: Working With Indexes](#), we explain how Jutoh can help you build a table of contents, and also an alphabetical index and footnotes or endnotes.

In [Chapter 13: Working With Style Sheets](#), you'll learn all about styles and style sheets, which are important in formatting your document consistently.

In [Chapter 14: Working With String Tables](#), we describe a trick for customising your books by using keywords in your content that are substituted by values that can depend on the current configuration.

In [Chapter 15: Advanced Topics](#), we look at a variety of advanced topics, such as character encodings, embedding font and media, guide types, and more.

In [Chapter 16: Understanding Ebook Formats and Platform](#), we describe some of the nuances of ebook formats and distribution platforms that you should be aware of.

In [Chapter 17: Marketing Your Book](#), we take a look at various ways in which you can get your book to a wider audience.

The [Glossary](#) may be useful for getting used to various terms used within this guide and the software itself.

In [Appendix A: Installing Jutoh](#), we look at how to install Jutoh on various operating systems.

In [Appendix B: Configuring Jutoh](#), we describe how to configure various aspects of Jutoh, in particular useful third-party applications such as KindleGen and EpubCheck.

Conventions and terms used in this book

- The convention **Menu | Command**, such as **View | Preferences**, indicates a menu and the command on that menu.
- The notation **Ctrl+S** refers to holding down the control key while pressing the ‘S’ key. On Mac, you can interpret this as **Command+S**.
- Where we refer to right-clicking, if you’re on a Mac, this action will be performed by control-clicking since there’s only one mouse button.
- The terms *compiling*, *building* and *generating* an ebook all refer to the same act of creating an ebook from the information in your project.
- A *context menu* is the menu you get when right-clicking (or control-clicking on a Mac), or pressing the context menu button on a Windows keyboard.
- *Document* is a general term for each separate item that can appear in a Jutoh project outline, whether it’s a chapter of your book, an embedded font, an audio file, or any other supported document type.
- *Book section* refers to a specific kind of document in which you can edit text and graphics; it can contain a chapter, a title page, a table of contents or any individual part of a book. This may sometimes be abbreviated to *section*.
- A *dialog* is a window that opens in response to some command or condition; usually (but not always) it needs to be dismissed before you can continue working in the main window. Dialogs usually have a **Help** button that will give more detailed information than this guide can cover.
- Screenshots are taken on Windows, but the functionality is identical on Linux and Mac even if it looks slightly different.

Chapter 1: Introduction to Ebooks and Jutoh

In this chapter we explore ebook formats, and explain how Jutoh fits into the process of getting your book onto virtual shelves. We'll take a look at how you get your content into Jutoh, and other tools that you can use alongside Jutoh.

Ebook formats

There are three major ebook formats in use today:

1. Epub, an open standard supported by all non-Kindle reader devices.
2. Mobipocket, a proprietary format specific to the Amazon Kindle but also supported on other devices.
3. PDF (Portable Document Format), an Adobe proprietary format supported by most devices.

There are other formats, including plain text and HTML, but the Big Three above are the important ones.

Epub is the industry standard with wide adoption, and is flexible enough for most ebook purposes. It's basically a zip archive containing the content in XHTML form, plus 'metadata' that describes the content and provides navigation information. An Epub reader (such as Apple's iBooks) should try to format the book in a standard way, but inevitably there are differences between implementations.

Amazon bought and adopted the Mobipocket format for their Kindle devices. Mobipocket is like a cut-down version of Epub: in fact the *Kindlegen* application used to compile a Mobipocket book uses all the same files that you see in an Epub book, distilling them to a proprietary format. However, the way a Mobipocket reader interprets the book is different from an Epub reader, with limitations on formatting that have to be borne in mind by the author, or worked around by the authoring software. Amazon's new 'KF8' format eliminates many of these limitations.

PDF has always had a strong showing in ebooks on the desktop, because it can faithfully render the layout you see in publications such as brochures, with a direct translation from a conventional word processor file. However it is less satisfactory on mobile devices, because PDFs cannot generally be 'reflowed' to take advantage of small screens and requests for different type size. So on a small screen you end up having to zoom in and out and pan around the document. Clearly this is not a good general solution for reading books, unless you have a device with a particularly large screen, and even then you will have trouble adjusting the type size without content either disappearing off the screen or leaving blank areas. We will not say much more about PDF in this book, but suffice it to say that if you need to support PDF, Jutoh can help you create these files by generating ODT which you can load into OpenOffice.org and from there, export to PDF.

Since Jutoh can handle all major ebook formats, it means that you can distribute your books for the Sony Reader, Apple iBooks on iPhone/iPod Touch/iPad, Amazon Kindle, any Android device, Barnes & Noble Nook, and many other devices as well as for any PC or Mac.

What is Jutoh?

Jutoh is an editor for creating your ebooks; you can create a book from scratch in Jutoh, or you can import an existing book. As we've seen, Jutoh can generate the major ebook formats. Unlike most word processors, Jutoh divides ebook content into sections, which is more naturally suited to the way ebooks work. Jutoh is a bit like a word processor in that it supports content formatting, but it is geared towards generating a variety of ebook formats, with various tools to help with this task. You can add images to your documents, and (experimentally) sound and video where supported by the ebook reader.

For clarity, here are some things that Jutoh is *not*:

- Jutoh is not just a converter. Although you can import from several different file formats, it's an editor so you can write content and apply formatting within Jutoh.
- Jutoh is not an HTML editor. You can pass some raw HTML and CSS through to the finished book if you wish, but Jutoh is control of most of the HTML generation and so you can't edit all of the generated HTML from within Jutoh. (However the publisher's version of Jutoh, Jutoh Plus, does have an HTML template facility to allow you to take over some or all of the HTML generation, and the ability to insert JavaScript files into the book. See www.jutoh.com/jutohplus.htm for more details.)
- Jutoh is not a full-blown page layout program. Don't expect to do multiple columns, text boxes or absolute positioning of content; Jutoh is optimized for the relatively simple needs of most ebooks which are generally read on small devices with little space for elaborate formatting. Having said that, some tricks are available if you need to go beyond Jutoh's formatting capabilities.

Jutoh helps you create a cover page for your book with the simple cover designer, which can substitute information from the metadata (title, author and so on) into the design. Create a design from scratch, or start from one of the templates provided by Jutoh.

Jutoh has facilities for compiling a table of contents and index, and can compile references either at the end of a section or in a separate section. You can of course create links between pages, and links to external web sites.

In addition, Jutoh contains tools to help collate research that doesn't belong in your finished book – for example text and image scraps – and has its own desktop where you can put 'sticky' notes, shortcuts to applications and documents, and even little image slideshows.

Jutoh works on Windows, Mac OS X and Linux (one licence is good for any or all platforms, which is handy if you have a variety of machines), and it can be run from a USB drive. All information for a given Jutoh project is stored within a single file with extension 'jutoh' which makes for easy transfer and backup.

What kinds of book can be created with Jutoh?

Jutoh is good for most book types, including:

- novels;
- short story collections;
- biography;
- self-help books;

- articles;
- manuals;
- photographic books;
- textbooks with simple layout requirements.

You can insert images into Jutoh, which can be photographic or artistic or could be used for symbols and decorative touches. You need to be aware of some limitations, however. Jutoh 1 doesn't support tables – they are supported in Jutoh 2 – so complex tabular layout is more difficult (though it can be done via raw HTML, or by formatting in another tool and importing as a picture). Also floating text boxes or complex rules and borders will need custom HTML/CSS or pictures to achieve. Mathematic or other formulae aren't supported but again, can be achieved by inserting pictures. As we said earlier, don't expect the layout of a complex word processor document to be reproduced exactly, as if exporting to PDF.

Jutoh's output, in common with the ebooks supported by most current ebook readers, is static, and so is not like a web page with forms and multimedia. Jutoh has experimental support for audio and video but these file types are not yet recognised by a wide variety of reader hardware and software and so should be approached with caution.

The book creation lifecycle

These are roughly the steps involved in creating and distributing an ebook.

1. Create a project, importing an existing file if you have one.
2. Edit the book content, metadata and cover.
3. Choose a configuration (approximately equivalent to the format) and compile the ebook.
4. Check the file for errors, for example using using EpubCheck.
5. If there are errors shown by step 4, go to step 2.
6. Preview the file manually. If there are errors, go to step 2.
7. Upload to one or more web sites.
8. Publicise.
9. Bask in the adulation of your readers.

Steps 1 to 5 are supported directly by Jutoh. As you can see, there are elements of both file conversion and editing in Jutoh. If you're really lucky, you could import a file and find there's nothing to do except generate the ebook. Or you can create a project from scratch, and do all your editing in Jutoh (which is what I'm doing for this book). More usually, you'll import some work you have already done, and massage the book in Jutoh until you're happy with it, going around the loop between items 2 and 6. You're likely to want to improve the presentation of the book by tweaking the formatting, creating a table of contents, and so on.

Because Jutoh runs on Windows, Mac, and Linux, you can use most desktop or notebook machines for your editing and even switch between them, since the Jutoh file format is portable (and a single Jutoh licence is good for any operating systems you may be using). Jutoh can run from a mobile drive; you

can read more about that in the Appendix and in the user manual.

A question people often ask is: “Can Jutoh create an encrypted ebook?” The short answer is No, but in fact this would be a useless feature. The sites that you will be uploading your book to requires unencrypted content, and it’s the ebook vendor site (such as Kindle, Smashwords or iBooks) that will be doing any encrypting. Unless you’re a big publishing company with a deal with Adobe, for example, you won’t be able to do any official encryption that can be recognised by any ebook readers. If you’re distributing the book yourself, probably the best policy is to make a virtue of the lack of encryption: customers tend to hate DRM (Digital Rights Management) and it restricts their freedom to use the book on different devices. So, just put a paragraph on the title page asking them politely not to copy the book in an unauthorised way. Any piracy that does happen may well boost your sales by increasing the buzz around your book. However, you can easily stop any person from freely downloading your commercial book from your own site, by signing up with a vendor service such as Plimus that serves a link to your book only after payment has been received.

How to get content into Jutoh

You can create a blank project, add book section sections, and type away. Or, you can import existing content. This is best done when you first create the project. You can import a folder containing multiple text and HTML documents, one file per book section, or you can import a single file containing one of these formats: plain text, DOCX, ODT, HTML, or Epub.

Note that Jutoh has a different internal representation from any of the formats it can import, and so it won’t preserve the document formatting 100%. This varies accord to format. With HTML and Epub import, Jutoh will read just a basic level of CSS styling and you may need to do further style and content editing after import, depending on the complexity of the original CSS and HTML.

The preferred import format is DOCX (Microsoft Word XML) or ODT (Open Document Text). You can convert a variety of word processing formats (such as DOC) to DOCX or ODT simply by opening them in OpenOffice.org (a free download) and saving as DOCX or ODT. Most style information from the DOCX or ODT document will be preserved. If you have an older version of Word that doesn’t support DOCX, you can download the “Microsoft Office Compatibility Pack for Word, Excel, and PowerPoint File Formats” which at the time of writing can be downloaded from:

www.microsoft.com/en-us/download/details.aspx?id=3.

This will add the ability to open and save DOCX files.

For import of DOCX, ODT and HTML files, Jutoh will help you split the book into sections by matching against heading styles or content.

You can also import DOCX, ODT, HTML and text into an existing project using the **File | Import** command.

For more information on importing, see [Chapter 5: Importing Files](#).

Tools to use with Jutoh

No man is an island, and neither is Jutoh. These are some of the third-party tools you can use to help with your book creation.

EpubCheck, by Adobe, is a very useful checker for Epub files. It examines the HTML and XML files in your book and flags up errors, such as missing mandatory meta-data, ill-formed HTML, missing

bookmarks, and so on. This tool is installed and configured by default with Jutoh; it needs Java to be installed on your system. Use the checker by clicking the **Check** button or by switching on “Check Epub after compiling” in the General Preferences dialog. You can get updated versions of EpubCheck from here:

code.google.com/p/epubcheck/

Amazon’s **Kindlegen** is essential if you want to create Mobipocket (Kindle) books. It’s not installed by default but you can download it from:

www.amazon.com/kindlepublishing

Configure Jutoh by going to the Helpers page in the Jutoh Preferences dialog and clicking on **Help Me Install Kindlegen** in the Helpers page or Setup dialog. Jutoh will install and configure Kindlegen for you.

To preview your Epub book, you can install **Adobe Digital Editions**:

www.adobe.com/products/digitaleditions/

or other Epub viewer. Jutoh will launch the default application associated with the epub extension when you click on **Launch**. If you need to use several viewers and choose between them, you can add viewers in the Helpers page of the Jutoh Preferences dialog, by clicking on **Configure**, then **Add**. Type the name of the helper application, and browse for the command to use. Now when you click on the **Launch** button, Jutoh will offer you a menu of applications to use.

Similarly, to preview Mobipocket books, you can use Amazon’s **Kindle for PC** and **Kindle for Mac**:

www.amazon.com/gp/kindle/pc

www.amazon.com/gp/kindle/mac

Formatting on this software can be different from on other devices, such as the Kindle device and iPhone/iPod Touch. Instead (or as well), you can use **Kindle Previewer** for Windows or Mac. This lets you select a number of different Kindle devices to test. However don’t rely on it; always do some testing on hardware if you can. On Windows, you can use the Setup Wizard (available from the **View** menu) to download and install Kindle Previewer as well as Kindlegen.

Sony Reader Library can be downloaded from:

ebookstore.sony.com/download

This application will preview Epubs.

OpenOffice.org is a free download from:

www.openoffice.org

It’s useful for converting Word and other word processor files to DOCX or ODT for import into Jutoh. If you plan to create ODT files with Jutoh, as well, you can use OpenOffice.org to convert your books to PDF, Word and other files. And of course, you may grow to enjoy it as a regular word processor instead of using one that costs a lot of money!

Summary

We have learned a little about ebook formats, what Jutoh is, the steps involved in getting a book to the

point of distribution, what files Jutoh can import, and what other tools can be used alongside Jutoh. Next, we dive into an example of creating a project and creating an ebook.

Chapter 2: Getting Started

In this chapter we'll demonstrate how easy it is to go from an existing file to a new Jutoh project and a generated ebook. We'll assume that you've installed Jutoh – see [Appendix A: Installing Jutoh](#) for details.

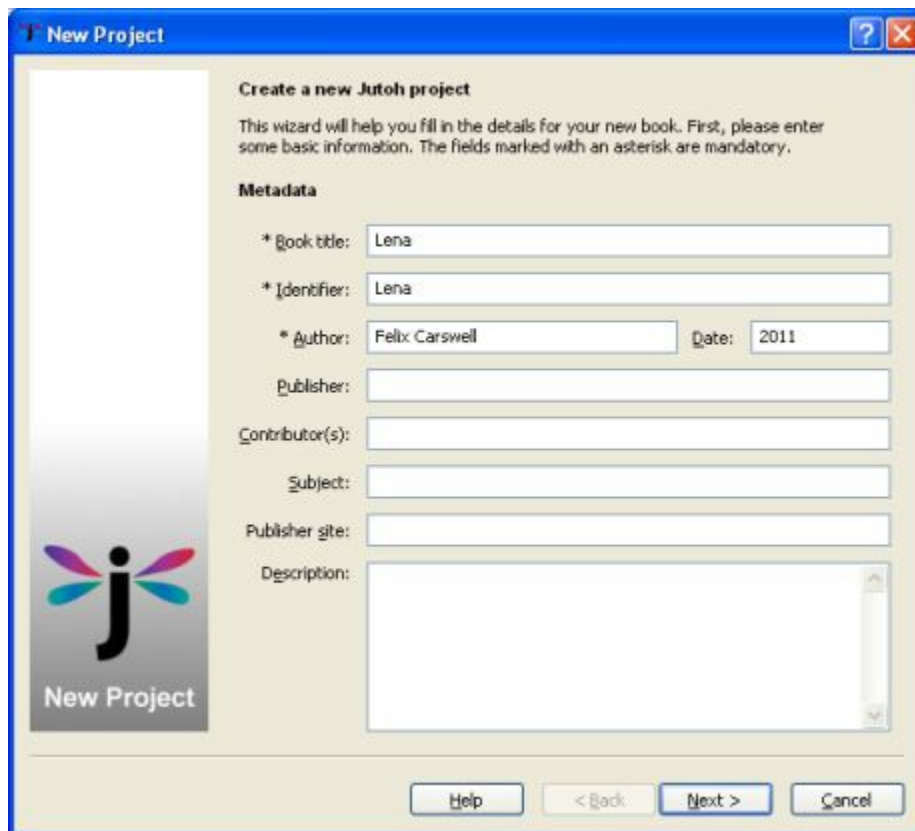
Creating a new project

Let's use the supplied sample file *Lena.odt* as the starting point for this tutorial. Jutoh will also accept Word, HTML, text and Epub files (Word and ODT are recommended for best results).

Run Jutoh and click the **New** button on the toolbar (or type **Ctrl+N** or click on **File | New Project**). You will be shown a wizard that will take you through file import. Here are the steps for importing it, one step per wizard page.

Step 1. Metadata

This page is for entering information about your book.



The screenshot shows the 'New Project' wizard window. The title bar says 'New Project'. The main area is titled 'Create a new Jutoh project' and contains the text: 'This wizard will help you fill in the details for your new book. First, please enter some basic information. The fields marked with an asterisk are mandatory.' Below this is the 'Metadata' section with the following fields: '* Book title:' (text box with 'Lena'), '* Identifier:' (text box with 'Lena'), '* Author:' (text box with 'Felix Carswell'), 'Date:' (text box with '2011'), 'Publisher:' (text box), 'Contributor(s):' (text box), 'Subject:' (text box), 'Publisher site:' (text box), and 'Description:' (text area). At the bottom left is a logo with a stylized 'j' and the text 'New Project'. At the bottom right are buttons for 'Help', '< Back', 'Next >', and 'Cancel'.

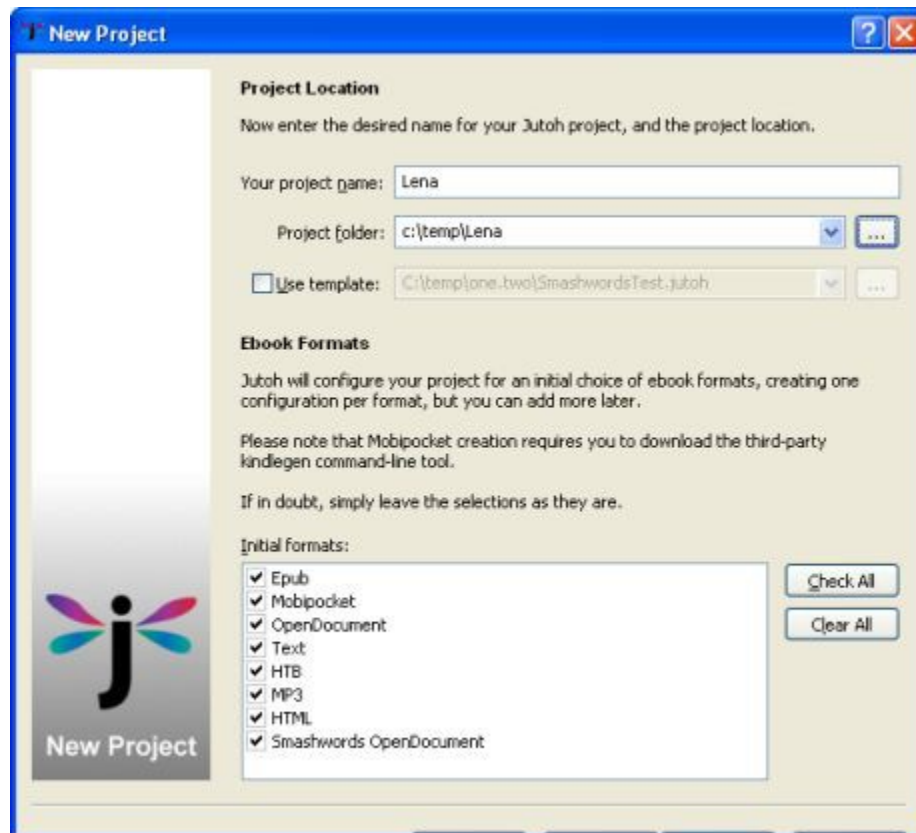
Step 1: Metadata page

Type 'Lena' into the **Book title** field, and a name into **Author** field. Leave the other fields as they are

(you can fill them out later), and press **Next**.

Step 2. Project Location

Here, you can specify the project name and folder. You can leave the Book Formats as they are.

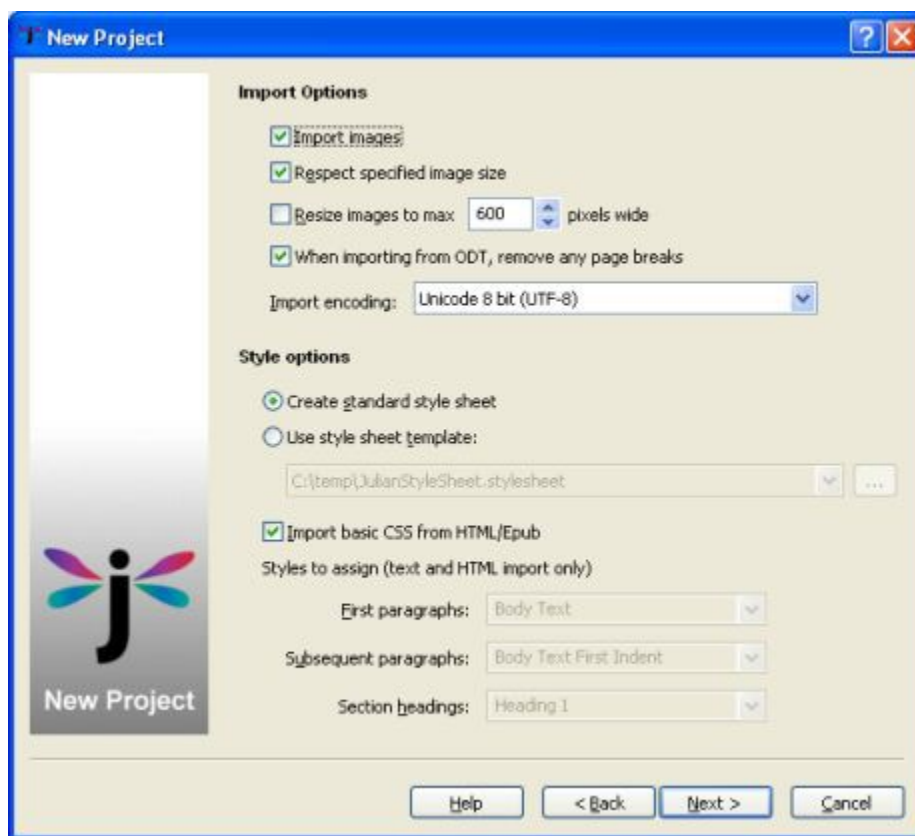


Step 2: Project Location page

Enter “Lena” into **Your project name**. If you wish you can change the location in **Project folder**. You can use an existing Jutoh project as a template if you wish, but you can leave the **Use template** option unchecked for this example. Press **Next**.

Step 3. Import Options

This page is for specifying various details about the import. You don’t need to change the defaults for this example.

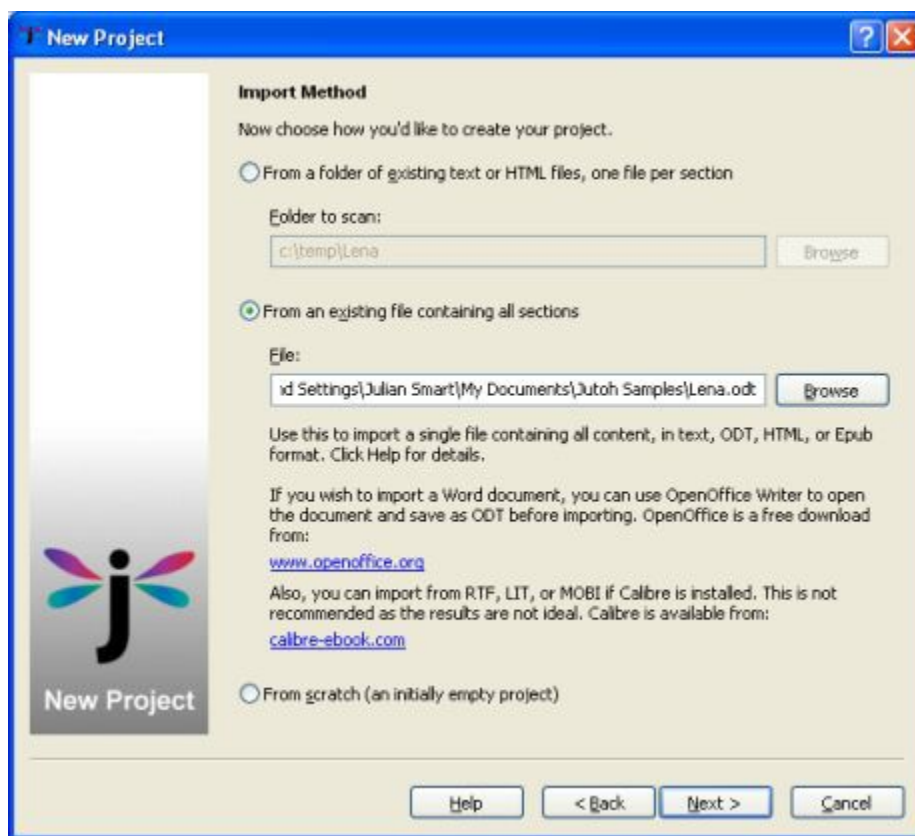


Step 3: Import Options page

Leave these options as they are, and press **Next**.

Step 4. Import Method

This page lets you specify a file to import.

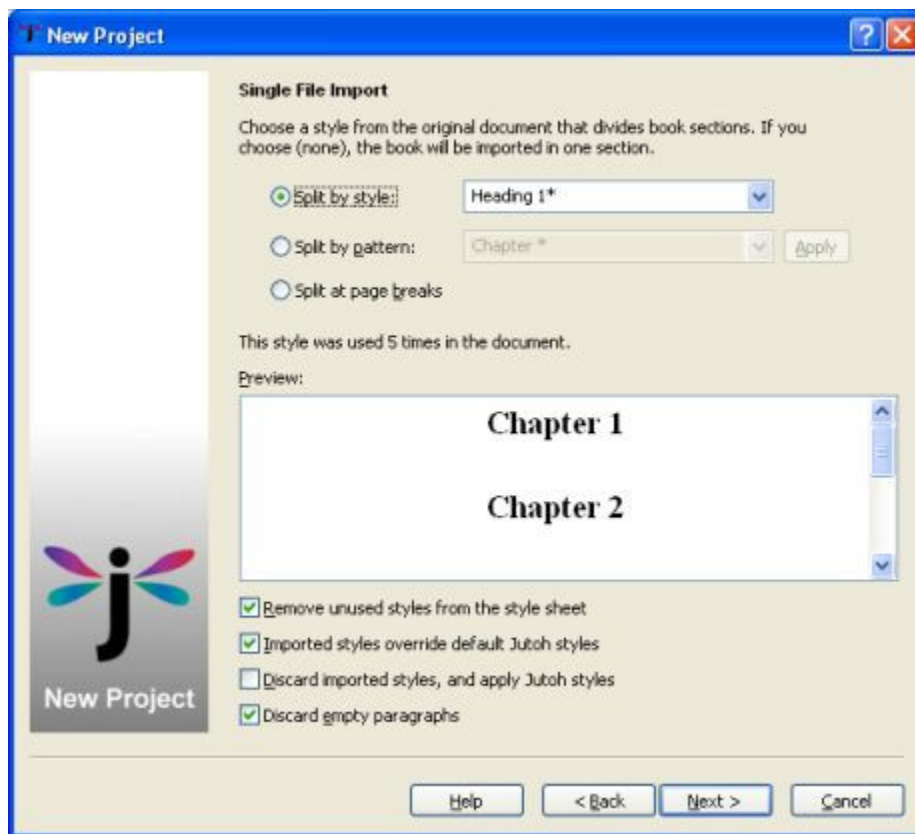


Step 4: Import Method page

Click on option **From an existing file** and browse for the file *Lena.odt* which you can find under *Jutoh Samples* in your *Documents* (or *My Documents*) folder. Then click **Next**.

Step 5. Single File Import

This page helps you specify how to split the book into separate sections, which you can do by specifying a heading style to identify as the chapter heading style, or heading text to match, or simply to split at page breaks.

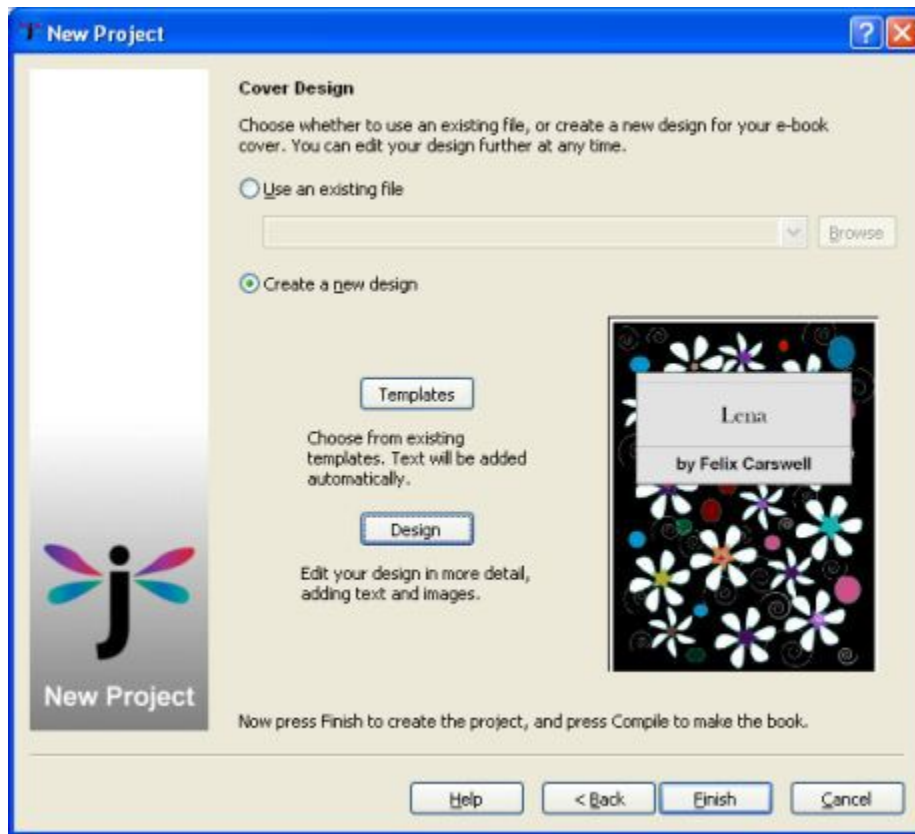


Step 5: Single File Import page

As you can see from the preview window listing the headings in the story, Jutoh has correctly guessed the paragraph style to use for splitting the story into sections, so all you need to do is press **Next**.

Step 6. Cover Design

The last page in the wizard lets you choose a cover design.



Step 6: Cover Design page

You can use the default design, or click on **Templates** to choose another template. You can change it later. Just press **Finish** to complete the import.

Jutoh will now create several sections, which are shown on the left in the **Projects** outline window. You can click on each section name and edit the text if you wish.

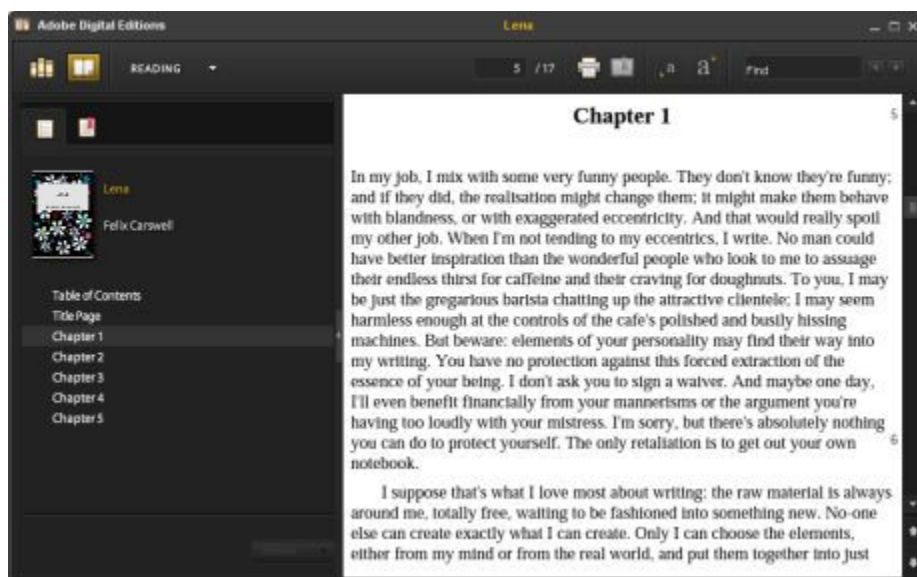
Compiling the project

Now we have the book in Jutoh, we can create an ebook. In the bottom-left part of the Jutoh window you'll see the Control Panel listing *configurations*. (If you don't see the Control Panel, press **Alt+7** or choose **View | Control Panel**).



The Control Panel

Each configuration corresponds to an ebook format. Select “Epub” if it’s not already selected, and click **Compile**. After it’s compiled, click **Launch**, and if you have an ebook viewer such as Adobe Digital Editions installed, your ebook will be shown.



Viewing the ebook in Adobe Digital Editions

If you want to compile a Mobipocket file for the Kindle store, select the ‘Mobipocket’ configuration and again press **Compile**. (You need to have downloaded, installed and configured kindlegen for this to work – see [Appendix A: Installing Jutoh](#) and [Appendix B: Configuring Jutoh](#)) Press **Launch**, and if you have installed a Mobipocket viewer application such as Kindle for PC/Mac, or Kindle Previewer for PC/Mac, it will launch to show your ebook.

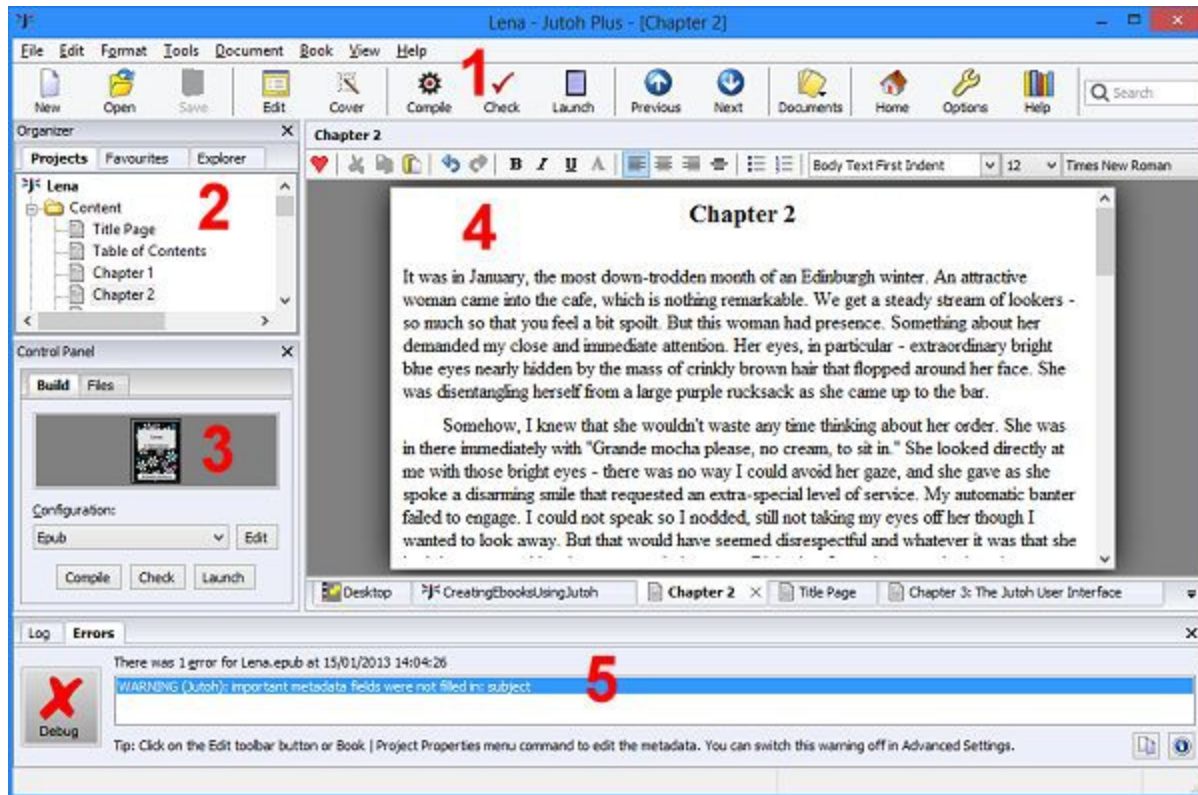
You can verify that the files have been generated by clicking on the **Files** tab in the Control Panel. You can select a file and then click **Folder** if you want to see where the file is on your disk.

Summary

Ta-da! You have imported content from a file and compiled an ebook. In the next chapter, we'll have a closer look at Jutoh's user interface so you can get to know your way around it.

Chapter 3: The Jutoh User Interface

In the last chapter, you learned how to import a file and compile it, without getting bogged down too much in the details of the Jutoh tools. Now we're going to take a closer look at the Jutoh main window where you will do most of your ebook work.


















The Jutoh main window

Menu bar and toolbar (1)

As with most applications, Jutoh has a menu bar under the window title, containing all the commands you need to make things happen. The menus are **File**, **Edit**, **Format**, **Tools**, **Document**, **Book**, **View**, and **Help** and the groups are fairly self-explanatory. Run your mouse along the menu bar and explore these commands; as you hover over a command, a summary will be displayed in the status bar at the bottom of the window.

Under the menu bar, the toolbar contains a selection of these commands for convenience. You can change the commands on this toolbar by right-clicking on it and selecting **Customise**, or selecting **View | Customise Toolbars**. These are the buttons available by default:

-  **New:** creates a new project, showing the New Project Wizard for importing content or creating an empty project.

-  **Open:** opens an existing project.
-  **Save:** saves any changes in the current project.
-  **Edit:** edits the Project Properties, including metadata, styles, covers and configurations. We'll come to this later.
-  **Cover:** edits the ebook cover design.
-  **Compile:** compiles the ebook using the currently selected configuration.
-  **Check:** checks an Epub using EpubCheck, listing any errors it finds in the ebook.
-  **Launch:** launches the ebook in the application that your operating system associates with it (or a custom application that you define: see [Appendix B: Configuring Jutoh](#)).
-  **Previous:** goes to the previous document in your book.
-  **Next:** goes to the next document in your book.
-  **Documents:** shows a menu of document types to add to the project. Normally you'll just add Book Section documents, for example for each chapter and the title page.
-  **Home:** goes to the Jutoh desktop, containing shortcuts to various features and documents.
-  **Options:** shows the Preferences dialog.
-  **Help:** shows or hides the help window containing the Jutoh manual.
-  **Search:** type text and press return to search for content in the project.

Organizer (2)

The *Organizer* shows all the documents in your project, in the **Projects** tab. A document corresponds to a chapter or section such as a title page. You can click on each document to view and edit it. You can view multiple projects in the Organizer if you wish, though you will have to enable this first via the Preferences dialog. Documents can be dragged, to change the position in the book, and a context menu is available if you right-click over a document. We'll go into this in more detail in [Chapter 4: Working with Projects](#).

Next to the **Projects** tab are two more tabs: **Favourites**, and **Explorer**. The Favourites tool shows a list of favourite projects for quick access; you can add to or remove from this list. The Explorer tool lets you browse your disks and open projects, delete them or add to Favourites.

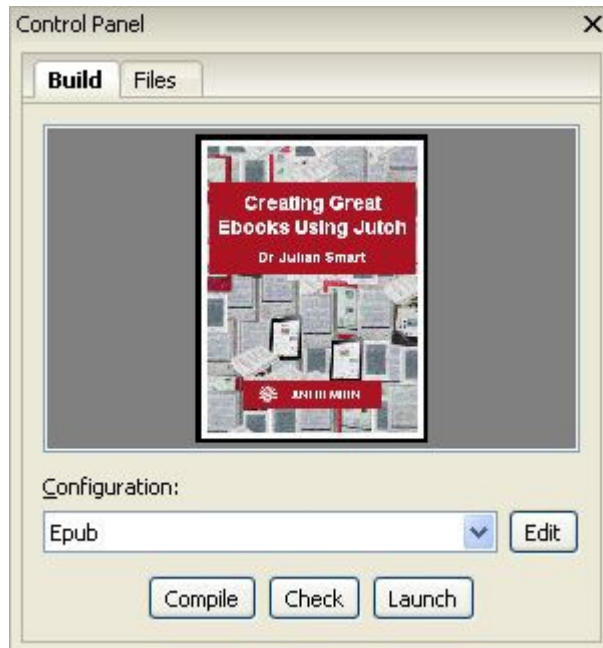
Control Panel (3)

The Control Panel has a **Build** tab which shows the current configuration (loosely, the current format to be generated), with buttons for compiling, checking and launching the book. Typically, you will:

- Select a **configuration** for a particular format, such as Epub;
- Click **Compile** to build the ebook;

- Click **Check** to check the ebook for errors (Epub only);
- Click **Launch** to view the ebook in an appropriate application, such as Adobe Digital Editions.

The control panel also shows the cover of the current project, which can be clicked to edit the design. Next to the configuration list is an edit button which will show the configuration editor – giving you the ability to change various things about the way the book is generated. We will cover configurations in [Chapter 9: Understanding Configurations](#).



The Control Panel

Next to the **Build** tab, the **Files** tab shows all the ebook files that have currently been generated for this project, regardless of format. You can view the folder containing a selected file, view the file with the appropriate helper application, or (for Epubs) examine the structure of the generated book.

Document area (4)

The bulk of the window is taken up by the document area, where you can view and edit the documents (sections) in your book. At the bottom you'll see a row of tabs, one for each document that you're currently editing, and also one for the Jutoh Desktop. The Desktop contains shortcuts for various Jutoh features and documentation, and it's also a place you can add 'sticky' notes (as shown below), pictures, and even picture slideshows. Click on the Jutoh logo button at the bottom-left for available Desktop commands.



The Jutoh Desktop

At the top of the document area you'll see the title for the currently-selected document. You can click on it to edit the title of the section as it appears in the outline, and in the generated book contents.

Under the title area, the book section editor shows a toolbar, which can be customised by right-clicking on the toolbar and choosing **Customise**.

The editor behaves in most respects like other editors and word processors you will have used, with some differences and simplifications. Formatting operations can be performed from the toolbar, **Format** menu, and the context menu (shown using right-click, or control-click on the Mac). Navigation around the document follows the usual pattern, for example using the control key combined with the left and right arrows to move a word at a time, and holding down shift to select text while navigating. Text editing and formatting operations can be undone and redone in the usual way. However, don't expect the editor to be *exactly* like ones you have used, since it has been written from scratch especially to work on a number of different platforms.

Log and error windows (5)

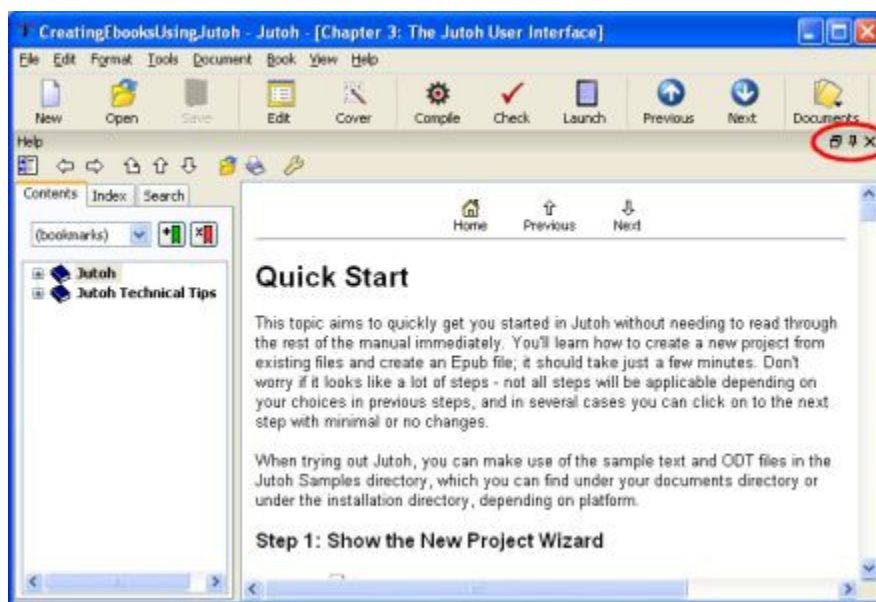
The log window displays messages when compiling projects. You can show it with the menu command **View | Show Log Window**, and there is also the option of showing it automatically when you compile an ebook. You can close it again using the **X** in the top-right corner.

The error window is shown when either Jutoh finds errors during a compile, or you perform an Epub check on a generated Epub book. If there are no errors, a green 'tick' will be shown. If there are errors, they are listed, and you can double-click on each to show the position of the error either within the original source, or within the HTML of the Epub book, depending on the type of error. From this you will be able to work out what you need to change in your project.

Getting help

There are various ways to get help in Jutoh.

The help window containing the Jutoh manual is shown when you click on the **Help** button on the toolbar, or type **Ctrl+H**, or use the menu command **Help | Contents**. Use the same command to close it again. The help window shows in the main window – if you want to close it, maximize it to take up the whole main window area, or unpin it to show it as a separate window, use the buttons at the top-right of the help window (circled in red in the picture below). If you’ve maximized it, you can use the same button to restore it back to its normal size. You can drag an unpinned help window back to the main window by moving it until a blue rectangle appears near the edge of the main window, and then dropping it. The help window itself has controls for showing or hiding the help contents, changing the text size, and navigating around the help.



Maximized help within the Jutoh window, highlighting the window management buttons

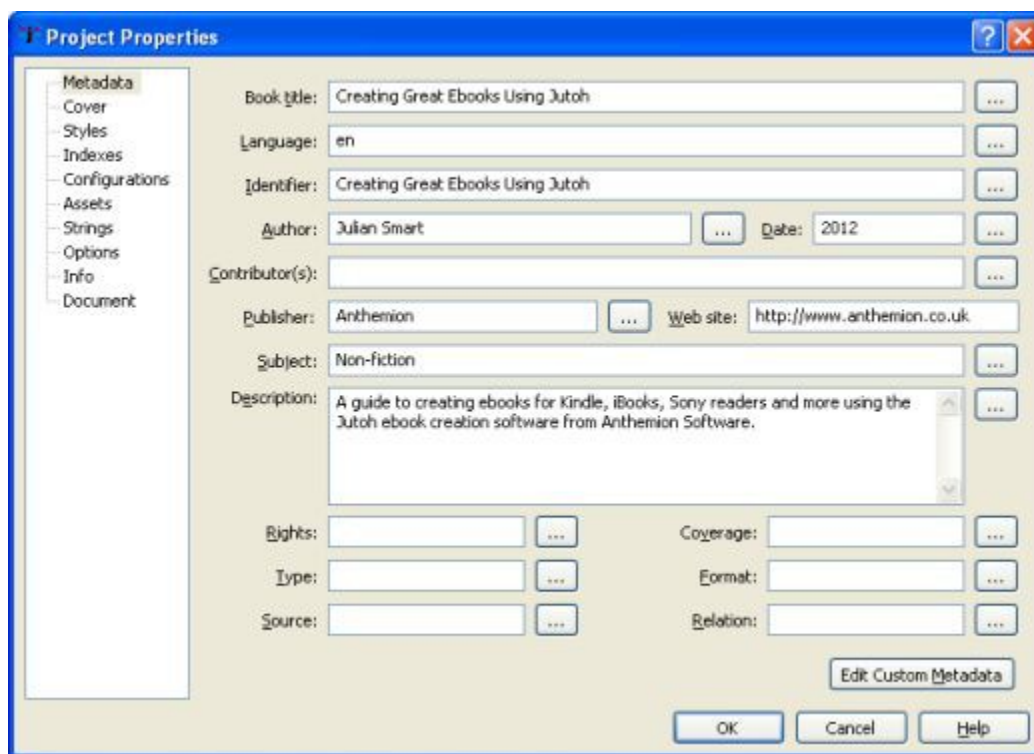
Most Jutoh dialogs have a **Help** button which shows the relevant help in a further dialog, and not in the main help window, so you don’t have to return from the dialog to see the help.

Also, you can use the **F1** key to get help on the control that currently has the focus; on Windows, you will often see a little question-mark icon at the top of a dialog. You can click that, and then on a control, to see a tip explaining the purpose of the control.

On the main window (only), you can use the **Help | Describe Window** command and then click on a window to show a tip with explanation about the window, with a link to click for more information.

Project properties dialog

You’ll be using this dialog a lot, because it allows you to edit all sorts of project information, including metadata (the description of the book), formatting styles, the cover design, and (using configurations) behaviour specific to each format that you wish to generate. You can show this dialog using the **Edit** button on the toolbar, or the **View | Project Properties** menu command, or the **Alt+Enter** keyboard shortcut.



Project Properties dialog

Customising the user interface

These are the main options for tailoring Jutoh to your preferred way of working.

- Close windows – use the **X** button to close panels such as the Organizer, Control Panel or Log Window. Show them again from commands on the **View** menu.
- Rearrange tabs windows – drag a tab to the left, top, right or bottom of the window associated with the tab, to split the tabbed area and see more information at once. These changes won't be restored on restarting Jutoh.
- Add or remove toolbar buttons – right-click on a toolbar to get the customise dialog, or use **View | Customise Toolbars**.
- Add or change keyboard shortcuts for menu commands, formatting styles, and symbols – use **View | Customise Shortcuts**. This interface is also used for adding menu items to the optional Favourites menu on the formatting toolbar – check **Favourite** for each shortcut item to be included in the menu.
- Change settings in the **Preferences** dialog (click the **Options** button on the toolbar, or **View | Preferences** on Windows and Linux, or **Preferences** on the application menu on Mac). You can choose whether to show a tip on startup, change the display language, set the width and surrounding colour of the edit window, and various other options that change the display and behaviour.
- Show Jutoh full-screen. If you are short of screen space or simply want to temporarily reduce clutter, you can use **F11** or the **View | Full Screen** command to remove the title bar, menu bar

and main toolbar. Press **F11** again to restore normal viewing.

For more information on customising Jutoh to suit your preferences, see [Appendix B: Configuring Jutoh](#).

Summary

In this chapter, we've seen more detail about the various parts of Jutoh that allow you to work with your projects. Next, we will help you achieve mastery over your projects, including how to manage the individual documents that they contain.

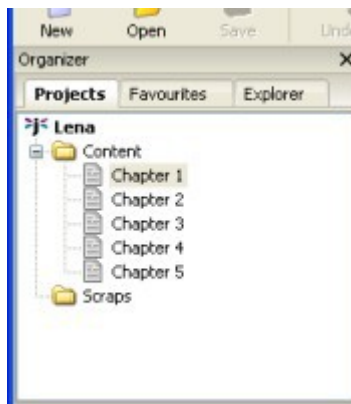
Chapter 4: Working With Projects

In this chapter, we'll get to grips with how projects and documents within them are managed. It's worth reading so you have a model of how Jutoh will handle your material and what you are able to do within a project. When using Jutoh, if you find the way documents work confusing, you might want to come back and re-read this chapter.

Overview

A Jutoh project contains a hierarchy of documents, some of which will be used to create your ebook. A document is a piece of information such as a book section, a text note, a picture, a shortcut to a file on your local disk, or a web link. Why might you add documents that are not part of your book, I hear you asking? Well, you may have textual or pictorial research that you want to store with the project, or perhaps you want to keep a note of what ebook sites you have uploaded the book to, and when. However, you don't have to use any other kind of document apart from the book section. The different document types are listed towards the end of the chapter.

The project is shown in the project outline window within the Organizer:



The Project Outline Window

Each document is displayed by clicking on its title in the project outline. Depending on your current settings, the document will be shown in a new tab or an existing tab in the document area. You can change this in **Preferences** under **Project/Document Preferences**, and determine which document types will be shown in separate tabs. You may prefer to reuse a tab per document to avoid having to manage a lot of tabs.

You can drag a tab to an edge of the document area to split the tabs and show multiple documents simultaneously. Drag the tab back next to another tab to go back to viewing one document at a time.

You can close a tab using the **X** button. This only closes the view of the document, and doesn't delete it. If you right-click over a tab, you will see a menu with tab-management commands such as **Close Other Tabs**. This is very useful if you have a large number of tabs open.


Note that under the special **Content** folder, you should only create **Book Section** documents. Any other sort of document will be ignored, including folders.

Creating and deleting documents

If you import an existing document, Jutoh will already contain one or more book section documents. However you may wish to create further documents, or you may wish to create a project from scratch consisting of several chapters.

When you create a document, where it goes depends on what document is currently selected. If you have selected a folder, it will be added as a child of the folder. Otherwise it will be created as a sibling of the selected folder.

You can use one of the following methods for creating a new document:

1. Click items on the **Document** menu.
2. Use a keyboard shortcut, such as **Ctrl+Alt+B** to create a book section.
3. Click on the document button on the toolbar and choose an item from the drop-down menu. The document button looks like this:  Most frequently, you'll be choosing **Book Section** from the menu.
4. Right-click in the project hierarchy and select **New Document** from the menu. Now choose your document type and title in the New Document dialog that shows.
5. Auto-paste by copying some data in another application, twice in quick succession (Windows only).

Now click on the title of the new document and enter the new page title.

You can delete a document by selecting in the project outline, and hitting the **Delete** key or right-clicking and selecting **Delete**. Note that this operation cannot be undone.

Moving documents

You can move a document in the project outline by dragging it to a new position using the left mouse button. If you drop the document onto a folder, the document will be placed inside the folder. Otherwise, the document will be inserted in front of the drop target. You can veto insertion into a folder by holding down the **control** key as you drag, and you can force adding the document as a child by holding down the **shift** key.

If you need finer control of where you move documents, you can use the cut and paste method. Right-click over the document you wish to move in the project hierarchy, and select **Cut** from the popup menu. Now go to where you wish to move the document, right-click again, and select **Paste Before This Scrap**, **Paste After This Document** or **Paste As Child of this Document**.

Managing project files

Each project file contains all the data needed for generating the ebook, including all book sections, style sheets, the cover design, configurations and project-wide options. You can save and open project files as you would any word processor file, and you can open multiple projects simultaneously within Jutoh if you enable the **View multiple projects** option in **Preferences** (the **Project** tab). This will allow you to copy and paste between projects.

As well as using the **Open** toolbar or file menu command, you can double-click in the list of **Favourites** (a tab next to the **Projects** tab). Or you can browse for the required project using the **Explorer** tool (next to **Favourites**). You can also use the **File | Recent Projects** menu. Yet another method is to double-click on the file in your operating system's file manager, and more techie users might want to invoke Jutoh from the command line passing the project file name.

If you make a project edit, such as adding a new document or editing project properties, an asterisk will appear next to the project name in the title bar until the project is saved. If you edit an actual document such as a book section, an asterisk will appear next to the document title in the title bar. To save both document changes and any project changes, use the **Save** button, **File | Save** command, or type **Ctrl+S**.

By default, Jutoh will create a backup file (a file with **jutohbak** appended to the name) before opening the file, so if there is a problem, you can revert to the backup. Jutoh also regularly auto-saves any data that hasn't yet been manually saved so if there is a computer crash it can restore the data the next time you open the project. This auto-save data is stored within the original project file. However, computer software and hardware can and does go wrong, so don't forget to back up your files frequently, preferably to multiple locations. You can use Jutoh's own simple archiving and backup facility if you wish (see **File | Manage Backups** and the description in the manual) but this is not automated.

If you find your project file getting a bit big, especially after a lot of editing and deletions, you can try compacting it. In **Preferences**, click on **Project**, then on **Project Maintenance**. Click on the **Records** tab, then **Delete Orphans**. Click on the **Project** tab, and then on **Compact Project**. All Jutoh data is kept in database tables and as data is changed, added and deleted, the database can become fragmented, so occasional compacting is necessary, like defragmenting a hard disk.

Where is my project?

If you have opened the project using a method that didn't require you to specify the whole file (for example, **File | Recent Projects**) you might not know the location of your project. To find out, just click on the **Edit** button (**Book | Project Properties**) and then click on the **Info** tab. This tells you the name of the project, the folder, and what version of Jutoh was used to last save it. You can click on **Show Folder** to show the containing folder using your operating system's file explorer.

Document types

The following document types may be created in Jutoh. Only create book section documents under the special **Content** folder; but you can create any kind of document elsewhere in your project.

Book section document

A book section document represents a part of an ebook: for example, a chapter, a title page, or a table of contents. A book section document is similar to a text document, allowing styled text editing, but has its own property editor dialog with options relating to epub generation and inclusion within an ebook depending on format.

Text document

A text document lets the user type a text note. This is useful for storing information that shouldn't be in the book itself, such as planning notes for your book, or a list of corrections to be applied, or maybe to keep track of the sites to which the book has been submitted. Typically you'll add these under the **Scraps** folder.

Folder document

The folder document allows you to group your documents as you wish. For example you might have a Web Links folder, and a My Photos folder. Note that while folder documents are particularly suited to containing further documents, in fact any document may contain children. Don't create folder documents under your book **Content** folder – this may only contain book section documents.

Image document

Use these to store images that won't appear in the book, perhaps for research purposes. You can create an image document from an image on the clipboard, with **Edit | Paste New Scrap (Ctrl+Alt+V)**. Or you can create a new image document and then paste the image into it with **Ctrl+V** or **Edit | Paste**. You can also resize the image and use a different format from the default format (PNG) using the image properties. Note that Jutoh normally saves images in full color, so it is best to use the compressed JPEG format for large images. JPEG images are saved at 90% quality, but try not to load and save JPEG images repeatedly or the image will degrade.

Web link document

A web link document contains a web address (or URL), and an optional description. These won't form part of the book.

Shortcut document

A shortcut document contains the location of a document or application on your computer. Again, these won't form part of the book – they are for your reference only.

Font document

A font document contains a TTF or OTF font for embedding in an ebook. The font data is stored within the project file and copied to the book when compiling. Embedding fonts is beyond the scope of this document, but you can find details in the Jutoh manual. It is recommended that you don't embed fonts and that you only use basic fonts such as Times New Roman, which is guaranteed to be supported on all ebook readers.

Media document

A media document contains an audio, video or image file for use in a media object. Embedding media objects is beyond the scope of this document (not least because few ebook platforms support embedded media). If you are determined to embed media (for example, if only targeting iBooks Epub books) you can find details in the Jutoh manual, and also a brief description in [Chapter 15: Advanced Topics](#).

Source code document

A source code document stores HTML, JavaScript or CSS code. The file is stored within the project file and copied to the book when compiling. Most users won't need this kind of document since Jutoh generates code from sections in your book, but sometimes it's helpful to include additional code, for example to update documents dynamically via JavaScript to implement a built-in quiz. At the time of writing, only iBooks allows this, but it will become more prevalent with the widespread adoption of Epub 3.

So that most users are not exposed to more complexity than necessary, source code documents can only

be created and edited in Jutoh Plus. Standard Jutoh can still open, save and compile projects containing source code documents. For more information, please see the Jutoh Plus guide at www.jutoh.com/jutohplus.htm.

Summary

In this chapter you have learned how projects and documents work. It was probably filed in the ‘boring but important’ drawer in your brain. Next, we look at how you can get your existing work into Jutoh.

Chapter 5. Importing Files

In [Chapter 2: Getting Started](#), we briefly showed how to import an existing file into Jutoh. In this chapter we will cover this aspect in more detail, including what the best import format is and why.

What can Jutoh import?

Jutoh can import from several different kinds of file, but with varying quality depending on the format. These are the supported formats:

- **Microsoft Word XML (DOCX):** this has been Microsoft Word's native file format for some years, but older versions of Word can still be made to open and save DOCX – see the [Introduction](#) for more information.
- **OpenDocument Text (ODT):** this is the native file format of the free OpenDocument.org Writer and LibreOffice Writer word processors.
- **Plain text:** Jutoh can import from a plain text file or folder full of text files, though there will be no fancy formatting initially, since there is none in the original text.
- **HTML:** Jutoh can import in a limited way from HTML; some formatting will be lost, although of course most can be put back by applying styles within Jutoh.
- **Epub:** Jutoh can import from an existing Epub file, with the same HTML restrictions as mentioned above.

Although Jutoh can import from these formats after a blank project has been created, it's usually best to import within the New Project Wizard because the wizard helps you split the file into sections.

Because Jutoh's representation is different from each of the native file formats, it's inevitable that some information will be lost in translation. For example, Jutoh has no concept of HTML's 'div', only paragraphs, and as tables are not supported in Jutoh, tables will not translate (they can be inserted afterwards as pictures or embedded HTML instead).

Let's look at the input formats in more detail, and how to import from each format in the Jutoh New Project Wizard.

Microsoft Word XML (DOCX) and OpenDocument Text (ODT)

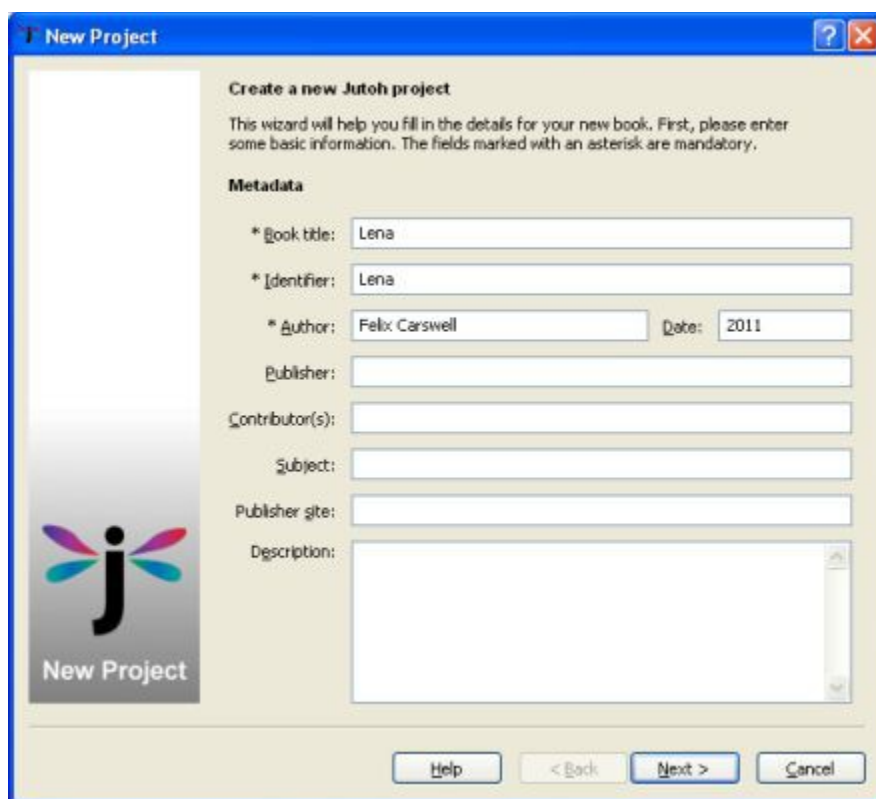
The majority of users, especially on Windows and Mac, will probably have their manuscript in Microsoft Word format. If you're using Linux, you're more likely to have an ODT file. ODT format originally started as SXW (the native format of StarOffice which became OpenOffice.org). Now it's a recognised international standard and supported in other word processors including recent versions of Microsoft Word. If your word processor doesn't support ODT, then you can download a copy of OpenOffice.org for free and use it to convert from what your word processor outputs, to ODT. You might save from your word processor in RTF, for example, before loading it into OpenOffice.org and saving as ODT.

Jutoh recognises the styles, footnotes, index entries and bookmarks in an ODT file and therefore this is

the best format to use for getting your existing book into Jutoh.

These are the steps to take when importing an ODT file.

Step 1: input some minimal metadata.



New Project

Create a new Jutoh project

This wizard will help you fill in the details for your new book. First, please enter some basic information. The fields marked with an asterisk are mandatory.

Metadata

* Book title: Lena

* Identifier: Lena

* Author: Felix Carswell Date: 2011

Publisher:

Contributor(s):

Subject:

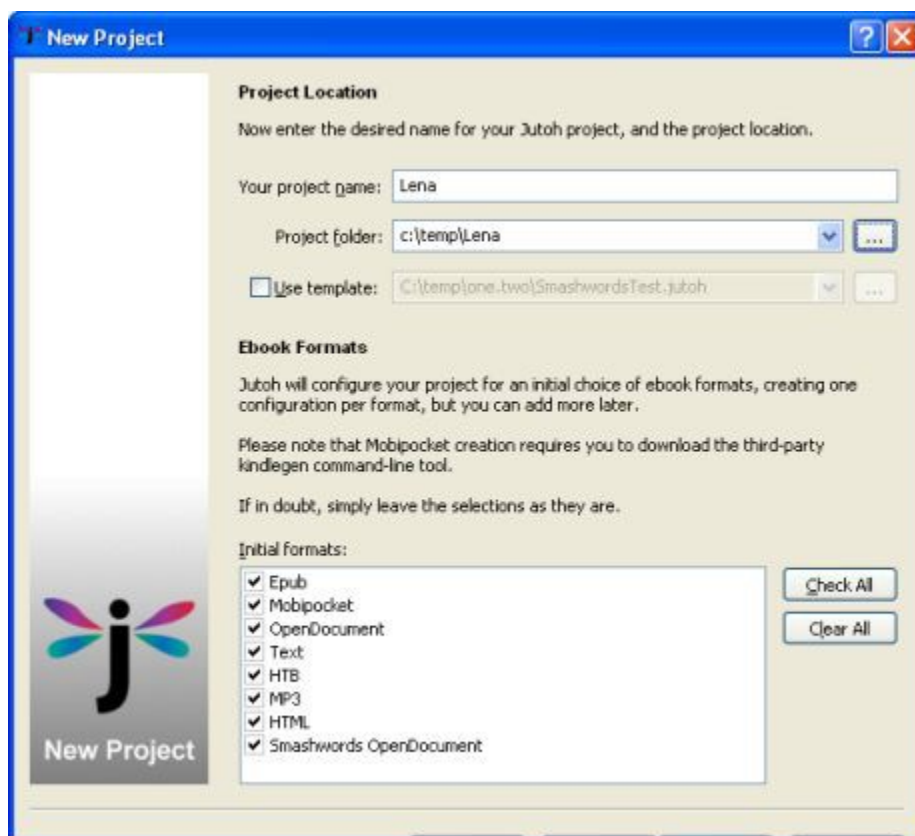
Publisher site:

Description:

Help < Back Next > Cancel

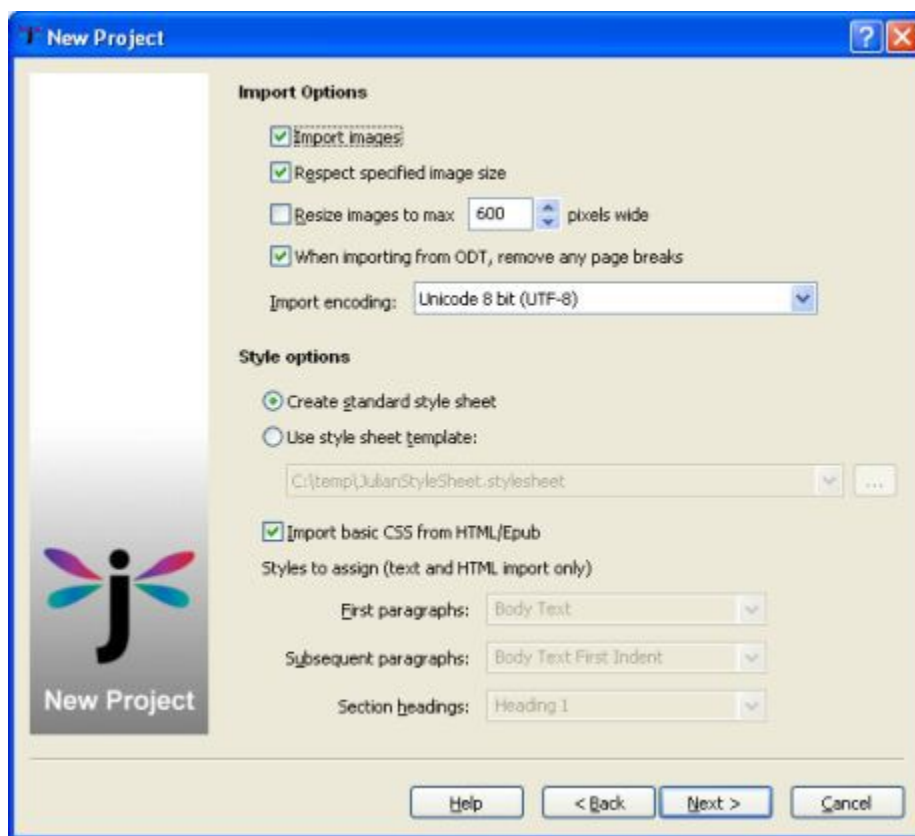
Step 1: metadata

Step 2: enter the project name and location. You can leave the Ebook Formats as they are, unless you want to change the initial available configurations. You have the choice of basing the new project on another Jutoh file – useful if you have a ‘house style’ that you wish to use for multiple projects. All the styles, cover designs, string tables, configurations, settings and documents (including media and font resources) will be copied from the template to the new file.



Step 2: project name and location

Step 3: you can leave the import and style options as they are. However, you may wish to adjust the **Resize images to max** option if you want pictures to be resized differently than the default (or not resized at all – resizing can be done at book generation time). Also, page breaks will be removed from the imported file by default, since book sections imply page breaks. Change **Remove any page breaks** if you need to retain page breaks.



Step 3: import and style options

Step 4: in the Import Method page, click on **From an existing file containing all sections** and specify the ODT file to import from.



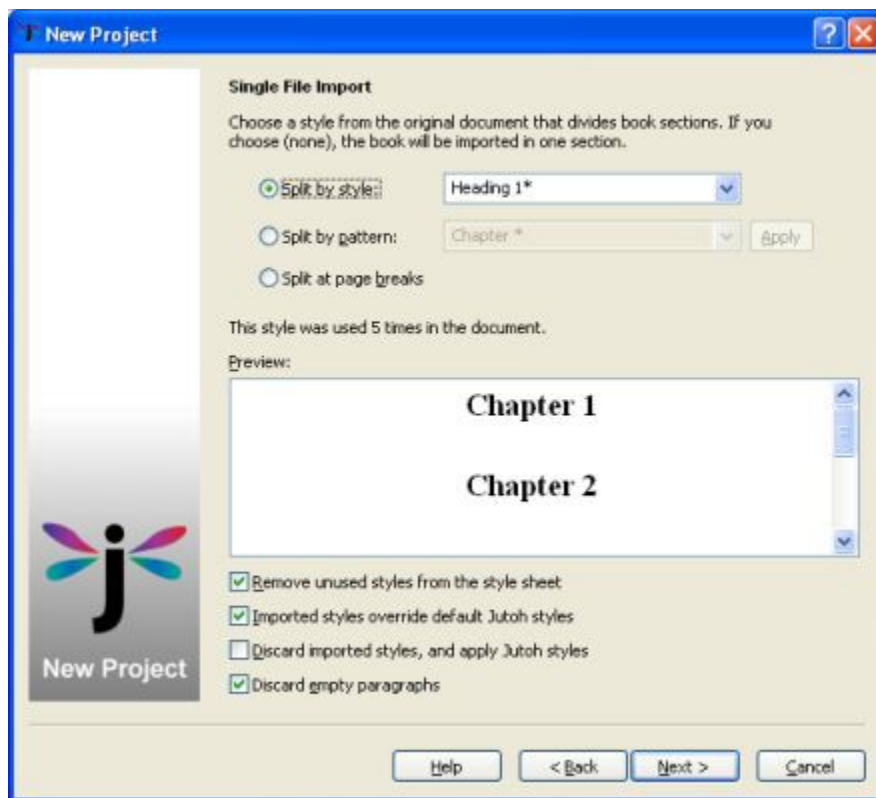
Step 4: specifying the import method and file

Step 5: in the Single File Import page, tell Jutoh how to split the file into book sections, which is important for an ebook. You can split the file using one of three methods:

1. By style: specify the heading paragraph styles that indicates the start of a section. Specify an asterisk to match against multiple styles, and separate multiple heading style patterns by the pipe character ('|').
2. By pattern: specify a pattern to match against heading text. For example, you might label each chapter with the prefix "Chapter". Again, use an asterisk to indicate multiple characters to match, for example "Chapter *".
3. Using page breaks: Jutoh will use page breaks to split the document.

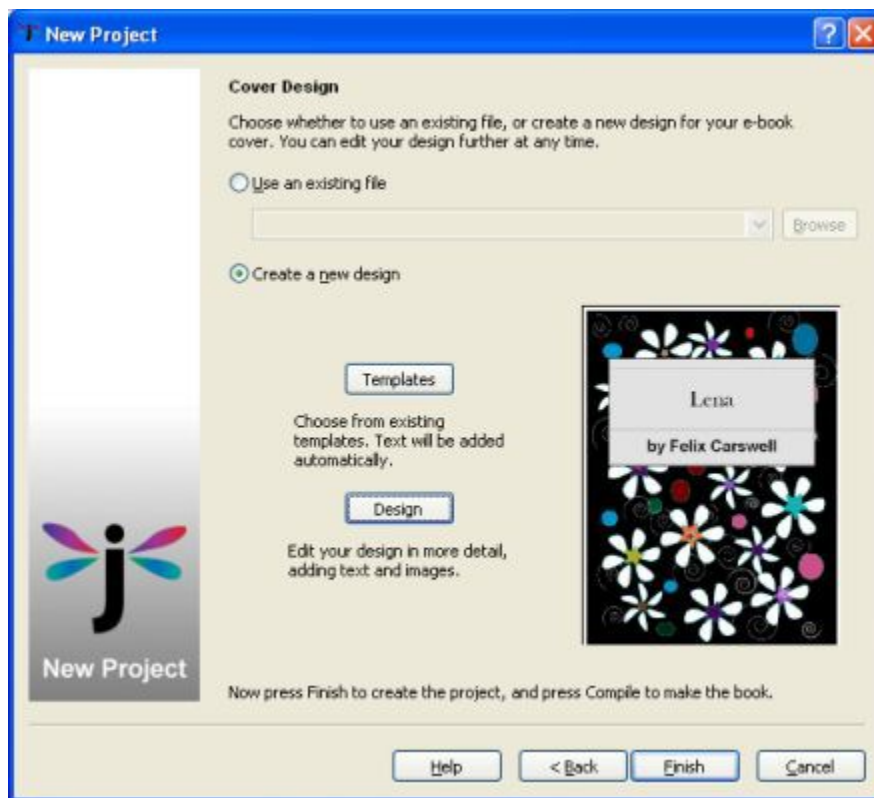
Jutoh will show a preview of some of the section headings it has found based on your current split settings. It will make an initial guess. If you cannot persuade Jutoh to find suitable split points, you can split your book sections manually later. Or, you might decide it's easier to edit the original ODT file to let Jutoh find split points. In this case, you can click on **Back** and then **Next** again to have Jutoh reread the changed ODT file.

You can also adjust a few other options, such as removing unused styles (the default), and discarding empty paragraphs (also the default). But the defaults are usually best.



Step 5: splitting the document

Step 6: in the final page, you can choose a cover design, either one of Jutoh's templates or an existing image file. Click on **Templates** to see the selection of designs available, or click **Design** to edit the design using the cover designer (see [Chapter 8: Creating Your Cover Design](#)). You can of course change your mind about the cover design at any time after you've created your project, so it doesn't matter too much what you choose in this page.



Step 6: choosing a cover

Now press **Finish**, and the ODT file will be imported, and (if possible) split into separate sections.

- ➔ Your usual word processor may have hidden your use of ad hoc formatting; for example, it might have reported “Normal” in its style list when actually you had applied ad hoc styles such as centring and paragraph spacing to that basic style. In Jutoh, you’ll see ad hoc formatting reflected in automatic styles in the style list – that is, styles containing a ‘+’ symbol such as “Normal + Centre Alignment”. You are strongly advised to replace ad hoc formatting with named styles, as detailed in [Chapter 13: Working With Style Sheets](#).
- ➔ If not all images are imported from your ODT file, it may be because they are in a non-standard format called SVM. Jutoh (and most other applications) are unable to convert these, but if you save your original file as an HTML file from your word processor, writing GIF files, then when importing from ODT Jutoh will try to substitute any missing SVM image files with the GIF files. Another solution is to insert the original images from files instead of pasting from the clipboard; or copying and pasting the missing images into Jutoh manually.

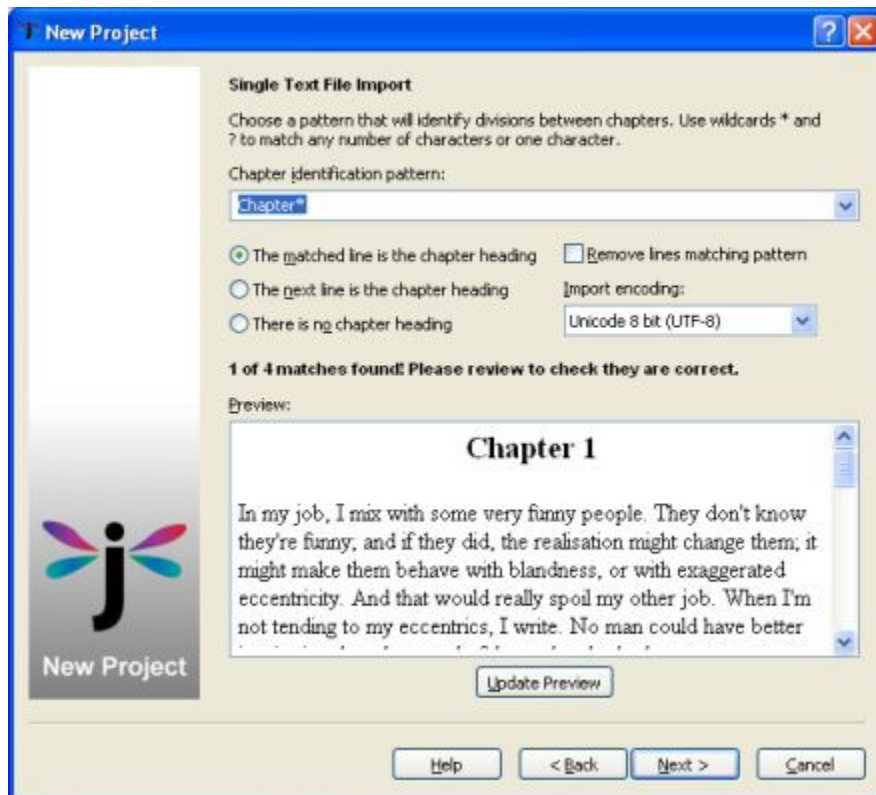
Plain text

Plain text can contain no formatting, and also generally doesn’t contain an indication of what ‘character encoding’ it has been written in, which is the key for an application to interpret how the data is converted to actual characters. The encoding is therefore specified by the user when importing. In general, UTF-8 is the best encoding to use when saving from a word processor since it can handle any language.

If you specify a folder of text files, each file will be used for a separate Jutoh section. If you specify a

single text file, Jutoh will take you to a wizard page that lets you choose criteria for splitting up the file. You may wish to edit your original text file to make it easier for Jutoh to split it into sections – for example, labelling each chapter “Chapter...”, or adding a separator between chapters, such as “---”.

The steps for importing text are mostly the same as for ODT above, the main difference being the Single Text File Import page that appears after you have chosen your text file.



Splitting a text file

In this page you can specify a pattern to identify the start of chapters, including asterisks to denote ‘match zero or more characters’. If you need to match actual asterisks, prefix them with a backslash; for example to match “***” you can write “***”.

You can also choose between the following mutually-exclusive options for telling Jutoh more about the matched text:

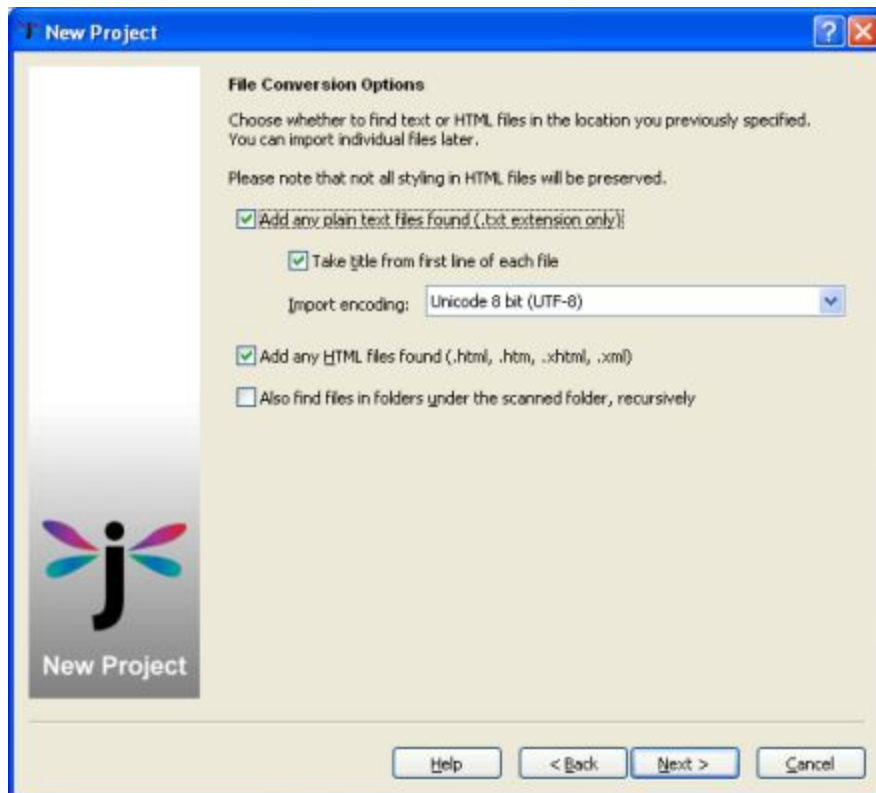
- **The matched line is the chapter heading:** choose this if your chapters are easily identifiable, as in the above example.
- **The next line is the chapter heading:** choose this if the text being matched is simply to denote a division (for example, “---”) and the next line contains the actual heading.
- **There is no chapter heading:** choose this if there is no chapter heading, just sections separated by some matchable text.

Check **Remove lines matching pattern** if you don’t want to keep section separators, such as “---”. Don’t check this if you’re matching against chapter headings.

Specify the **Import encoding** to match the encoding of the text file, as used by the tool that created the text file originally. Usually UTF-8 is the best format to use.

If you want to change the styles that Jutoh applies to the imported text (for initial paragraph, subsequent paragraphs, and section headings), you can change them in the Import and Style wizard page (see Step 3 above).

If you have a number of text files, one per chapter, you can select the folder instead of a single file, and you will be presented with the File Conversion Options page:



Multiple-file conversion options

You can specify whether to take the title from the first line of each file, and the file encoding. You don't have to tell Jutoh how to split the content because it'll simply create one section per found file.

HTML

Jutoh can import from a single HTML file, or a folder of several. As with plain text import, Jutoh will allocate a section per HTML file if importing from a folder; if importing from a single file, the same options will be presented as per DOCX or ODT import, allowing you to specify a pattern to use for recognising individual sections.

As already mentioned, HTML does not preserve all formatting, because it can only do a basic job of converting CSS (HTML styles) to Jutoh styles. CSS works very differently from Jutoh styles, so there can never be an exact conversion. You can either clean up the content and styles after import, or you can clear the option **Import basic CSS from HTML/Epub** and specify the styles for the first and subsequent paragraphs after each heading. This way, you can use import as a kind of cleanup

mechanism, to convert complex HTML to a simple Jutoh project (and then back to HTML/Epub/Mobipocket).

Jutoh will attempt to read any images in the HTML. Footnotes and alphabetical indexes will be imported as standard HTML implemented using links since HTML does not define these explicitly. If you need these to be preserved, use DOCX or ODT import.

Where an HTML link defines both an anchor and a reference in the same “a” tag, a bookmark symbol is generated just before the linked content, since Jutoh can’t handle both simultaneously. This will be generated as an empty bookmark followed by the linked content.

Epub

You can specify an Epub as a single file in the New Project Wizard. Since Epub files contain HTML, the same import restrictions apply as for HTML. However Jutoh will be able to recreate the structure of the Epub accurately, and will use the metadata it finds in the Epub.

Importing into an existing project

You can still import from text, HTML, DOCX, ODT and Epub at any time after initially creating your project, using the **File | Import** command. However, you will not be assisted in splitting up your imported file; you will need to do it manually, for example with **Edit | Split Document**, except for Epub files which will use the found structure and will give you the option to import the whole Epub under a new folder – useful for merging several volumes into one book.

Reimporting

Jutoh makes it easy to duplicate an initial import operation, for example if you changed the original file or decided to use different settings. Use the **File | Reimport Project** command to show the New Project Wizard using the same default settings as you used originally, deleting the current project content before importing the file again.

Summary

In this chapter you have learned how to import your existing work. Next, we delve into the details of editing and formatting content.

Chapter 6: Editing and Formatting Content

Jutoh is not just a way of converting existing files to ebooks: one of its major strengths is the ability to edit and tweak your book before creating the ebook in the desired format(s). In this chapter we'll learn how to edit and format your book's text and graphics.

Why divide a book into sections?

First, a quick word about why Jutoh projects, and ebooks in general, are divided into *sections*. A section can be a chapter, a title page, a table of contents, and so on. Most ebooks are comprised of sections rather than being one enormous chunk like a Word document. One reason for this is because some ebook readers, with their restricted memory, simply can't cope with large chunks of text; or if they can, slow down when loading and paging through such a book. Another reason is that it is easy to compile a table of contents for a book that's divided into sections (though Jutoh can also look inside sections for headings if required). Via section properties, you can tell the ebook reader that a section is a table of contents or other kind of section, which you couldn't do if it was buried inside one huge section. Finally, you'll find it easier and faster to navigate and edit a book divided into sections.

If Jutoh didn't split up your book when importing, you can do it manually, one split at a time. Place the cursor on the paragraph you wish to be at the start of a new document, and use the command **Edit | Split Document**. If you change your mind, you can't undo this with **Edit | Undo**, but you can join this document with the next one using **Edit | Join Document**. If the new document was inserted at the wrong place, you can drag it into the correct position.

You can edit the title of a particular section by clicking on the title above the editor or using the **Rename** command on the project outline's context menu (right-click to see it). This title will be used in the automatic table of contents.

Basic content editing

When you click on a book section in the project outline, or create a new book section with **Document | Add Book Section Document**, you are presented with the Jutoh editor. You can use this just to review the content in your book, or you can edit the text, graphics and formatting. Many of the editing keystrokes will be familiar from other editors, though there will be some differences. Here are the more important keyboard and mouse operations:

- Use the arrows to navigate a character or line at a time. Hold down the control key to move a word at a time.
- Use **Page Up** and **Page Down** to move up and down a page at a time. **Home** and **End** move to the beginning and end of the line respectively; hold down the control key (command key on Mac) to move to the start or end of the whole section.
- Use **Shift+Enter** to insert a line break character within a paragraph. Use this sparingly, if at all, since it can be confusing to edit paragraphs containing line breaks.
- Hold down shift with a navigation key to select content; you can use **Ctrl+A** to select all text in a section.

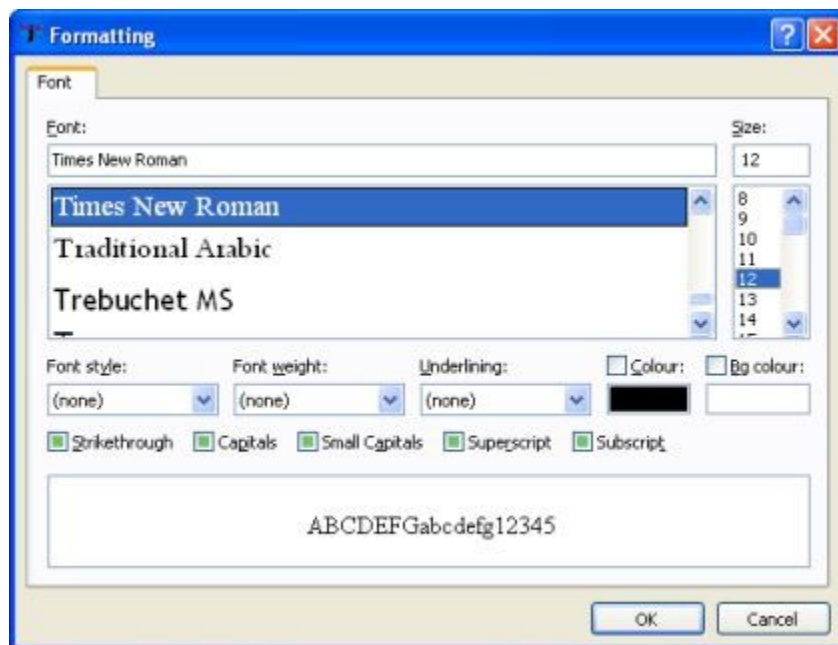
- Use double-click to select a word, and drag the mouse to select a region of text. Several separate areas of selection are not supported.
- In addition to the toolbar buttons and menu commands, you can use **Ctrl+C** to copy text, and **Ctrl+V** to paste text. To move text, you can use **Ctrl+X** to cut and **Ctrl+V** to paste.
- Use **Edit | Paste Unformatted Text** to strip formatting out of the text you are pasting, useful if the original formatting is not applicable to the current context.
- Use **Ctrl+Z** to undo an operation, and **Ctrl+Y** to redo it.
- Use the drop-down style control on the editor toolbar to apply paragraph styles – more on that later.

Some editing commands are also available on the context menu, which appears when you right-click over the editor.

You can change the size of the text for editing purposes (not the actual book text size) by clicking on the **A[±]** tool on the toolbar and then selecting Larger or Smaller, or you can go to the Appearance panel in the Preferences dialog and change the text size in **Font for text documents**. In this panel, you can also change the default text foreground and background colours and the maximum size of the editor window.

Formatting text

If possible, text formatting such as font family, size, colour, bold and so on should be defined using named styles (see later in the chapter) and not on an *ad hoc* basis. However, sometimes it's convenient to change the formatting directly. You can select a span of text and use toolbar buttons or the **Format | Font** dialog which gives you size, colour, weight, style and other options, as shown below:



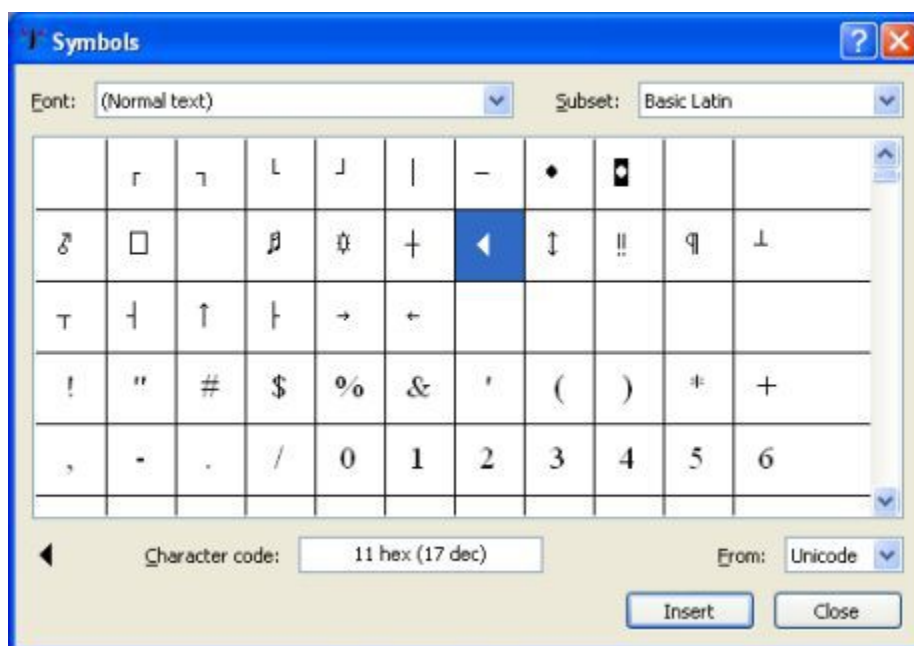
The font dialog

If there are currently no formatting attributes defined for the span of text you have selected, or there are no *common* attributes for the whole span, you will see that all controls have an ‘undefined’ appearance, as in the screenshot. This means that the text will inherit whatever attributes are defined in the paragraph. If you choose a particular attribute, such as font name, then only that attribute will be applied when you press **OK**. If your span of text has a particular attribute, such as colour, you can clear that attribute by clearing the checkbox or choosing “(none)” or clearing the control value, depending on the attribute in question. If you want to remove all formatting for a span of text, then you can use **Format | Text | Reset Text Formatting** instead of the font dialog.

Special symbols

Jutoh supports most left-to-right languages using Unicode, and you can insert special symbols in several ways:

- Use the **Format | Insert | Symbol (Shift+Ctrl+Y)** command to show the symbol selector dialog containing all the Unicode symbols (see the screenshot below).
- Using **View | Auto-Replace Preferences**, define symbols that will be inserted when you type a particular piece of text followed by space or paragraph return. For example, by default typing three dashes followed by a space will cause Jutoh to insert an em-dash (—). For more information, see [Appendix B: Configuring Jutoh](#).
- Define a symbol as a keyboard shortcut and/or favourite, using **View | Customise Shortcuts**. A favourite is a style, command or symbol that is defined as a shortcut and also has its **Favourite** option checked. It will then appear on the ♥ **Favourites** toolbar button. (If this button is switched off, you will need to enable it using toolbar customisation.) For more information, see [Appendix B: Configuring Jutoh](#).



The symbol selector dialog

Note that not all ebook readers support non-English Unicode character sets using their default fonts. To

show, say, Romanian diacritics in Adobe Digital Editions, you need to embed a suitable Unicode font (for example, DejaVuSans), and specify a font substitution in your configuration the embedded font is used. For more on embedding fonts, see [Chapter 15: Advanced Topics](#).

Pictures

You can insert pictures into your document with **Format | Insert | Picture (Shift+Ctrl+C)**, or simply by pasting a picture from the clipboard. If you use the insert method, the picture will be stored in the original file format; if you paste from the clipboard, the picture is stored as a PNG. By default Jutoh will convert pictures to JPEG when you actually generate the ebook, so you don't generally need to worry about inserting a format that's compatible with Epub or Mobipocket at time of insertion.

If you insert a picture that's very large (in dimensions, not file size), Jutoh will resize it at the time of insertion. You can switch this off, and change the maximum size, using the **Resize images to max setting** in **Import Preferences**.

A picture is shown and edited in Jutoh as simply a character in a paragraph. Typically, a large picture will have its own paragraph. Although it won't be shown visually within Jutoh, you can adjust floating options by right-clicking over the picture and selecting **Properties**. The properties dialog will let you fill in values for float mode (none, left or right), margins, alternative text and other attributes.

We'll go into more detail about images and how Jutoh optimizes them for ebooks in [Chapter 11: Working With Pictures](#).

Page breaks

The ebook reader software will cause page breaks to appear between sections (such as chapters), so you don't need to insert a break at the start of each section. If you need page breaks to appear within a section before a particular paragraph, put the cursor on that paragraph and use **Format | Insert | Page Break (Shift+Ctrl+E)**. To remove a page break, use the same command again. A dotted line will appear before the paragraph indicating the location of the break. How page breaks are interpreted visually is up to each ebook reader.

Non-breaking spaces and hyphens

You can insert non-breaking spaces and hyphens with **Format | Insert | Non-Breaking Space (Shift+Ctrl+Space)** and **Format | Insert | Non-Breaking Hyphen (Shift+Ctrl+-)**. The non-breaking space is inserted as a Unicode character (160) but since some fonts can't display the non-breaking hyphen character (8209), this is inserted as a special object. If you enable the configuration option *Convert non-breaking hyphen to hyphen*, Jutoh will generate HTML with a regular hyphen and a span that prevents breaking, to be compatible with more Epub viewers. This is unnecessary for Mobipocket.

Some Epub viewers do not support a non-breaking horizontal bar, which is essential punctuation for Spanish. So if you are writing Spanish, you may wish to enable the configuration option *Convert horizontal bar to em dash*. This converts the horizontal bar (Unicode 8213) to an em dash (Unicode 8212) and adds a non-breaking span. For the non-breaking behaviour to work, the bar and non-space character to the left or right of the bar must be formatted in the same (or no) character style. (Note that when we talk about conversion, we are referring to the final generation of the ebook from the Jutoh content, not file import. So you can retain the horizontal bar in your Jutoh content and decide at any time whether or not to have it appear as an em dash in your book, without any permanent replacement of the original symbol).

You can also set the configuration option *Styles suppressing hyphenation*. This is a pattern matching all styles that should suppress hyphenation; the default value is “Heading*”, thus suppressing hyphenation for all headings. You can separate multiple patterns with the pipe (“|”) character.

Horizontal rules

To add a horizontal rule, for example to indicate a division between scenes within a narrative, use **Format | Insert | Horizontal Rule (Shift+Ctrl+B)**. You will see a symbol like this:



You can click on the symbol to change properties such as width and colour. These properties won’t be reflected within the Jutoh editor, but will be output to the Epub or Mobipocket book.

Bookmarks and links

You can mark text or a picture with a named bookmark so that a link can point back to it. Use **Format | Insert | Bookmark** and give the bookmark a unique name, consisting only of alphanumeric characters and underscores. If you select content first, the bookmark will be associated with that content. No extra formatting will be shown, but the cursor will change as you move over it and you will be able to click on it to show the bookmark dialog. If you don’t select content first, a bookmark symbol will be placed at the cursor, like this:



Note that you don’t need a bookmark for a link to point to a whole section, only if you need to be able to refer to a specific point within a section.

To insert a link within the book, use **Format | Insert | Link to Page (Shift+Ctrl+G)**. You will be shown a document browser – select a section document and, if you wish, a bookmark within that section. To edit or remove the link, just click on the linked text.

To insert a URL (an external web site address), use **Format | Insert | URL (Shift+Ctrl+W)** and type the address.

When you create a page link or URL, the dialog will give you the option of applying a style to the linked text. This style is mainly for editing convenience so you can easily see the links; ebook readers will provide their own styling for links. In order not to clash with the default link styling, when generating the ebook Jutoh will remove attributes (such as colour and underline) if they are also present in the “URL” character style, but you can change this behaviour per configuration.

Automatic bookmarks have the prefix `automatic_bookmark` and are removed before a page is indexed by the Table of Contents Wizard. If you want to make sure that a heading retains a constant bookmark that you can link to manually, change the bookmark to one without the `automatic_bookmark` prefix. The Table of Contents Wizard will not remove this bookmark.

You can control-click on a page link (or alt-click, on Mac) to display the document that is the target of the link, with the bookmarked content selected.

When inserting a URL (not a page link), you normally simply specify the URL address, such as `http://www.something.com`. However if you want more control (in HTML-based formats only), you can include the entire contents of the “a” tag and Jutoh will output the whole thing. The key is to

include the “href=” attribute within the URL. For example:

```
href="http://www.something.com" onclick="return  
popitup('http://www.something.com') "
```

In non-HTML formats, Jutoh will extract the actual URL automatically.

Footnotes

You can insert a footnote using **Format | Insert | Footnote (Shift+Ctrl+N)**, and you will be able to edit the footnote text in a separate dialog. A footnote is represented by this symbol within the text:



Footnotes can either be shown at the end of the section containing the footnote, or as a separate endnotes section. The way footnotes are presented in the generated ebook is determined by settings within the Footnotes & Endnotes tab in the Project Preferences dialog, under Indexes.

Note that a footnote is always styled with the designated footnote paragraph style setting, overriding paragraph styles you use within the footnote editor.

For more information on footnotes, please see [Chapter 12: Working With Indexes](#).

Index entries

If you mark your book with index entries, Jutoh can generate an alphabetical index section. Use **Format | Insert | Index Entry (Shift+Ctrl+I)** and enter the index entry name and, if necessary, one or two subcategories. This symbol will be inserted into the text:



The way the the index is presented is determined by settings within the Index tab in the Project Preferences dialog, under Indexes.

For more information about indexes, please see [Chapter 12: Working With Indexes](#).

The basics of formatting using named styles

Jutoh maintains a style sheet for each project, containing named style definitions that can be used to change formatting in your project. Each style definition (or just style, for short) specifies visual attributes such as italics, colour, alignment, and so on.

Jutoh supports three kinds of named style:

- *Paragraph style*. This kind of style applies to an individual paragraph, and you can see available paragraph styles in the drop-down control above the editor.
- *Character style*. This kind of style changes the formatting for a span of text within a paragraph. You can apply character styles using the context (right-click) menu, choosing **Styles** and then **Character Styles**.
- *List style*. This kind of style defines how list items are formatted at each depth; the two list buttons on the formatting toolbar simply apply two of the standard list styles (bulleted and numbered).

You can edit these styles, and add new ones, using the Styles page in the Project Properties dialog; or you can use **Format | Edit Styles**. Style changes will be applied to any open documents as soon as you close the dialog.

Whatever the formatting you apply, Jutoh must always be able to relate it to a named style. So if you use *ad hoc* styling, such as applying centred alignment using the toolbar, Jutoh will create a new *automatic* style (or find a suitable existing one), for example “Normal+Centre Alignment”. These automatic styles are maintained with each book section document and you can’t edit or delete them manually.

I cannot emphasize enough how important it is to use named styles, not *ad hoc* styles or automatic styles, wherever possible. This will make it far easier to maintain a consistent format for your book, since then when you need to change the presentation you may only need to change the named styles, and not every relevant paragraph. Also, it makes it easier Jutoh to perform tasks such as table of contents creation because it can search for specific paragraph styles. Having said that, it’s probably not worth maintaining and applying separate styles for occasional use of bold or italics.

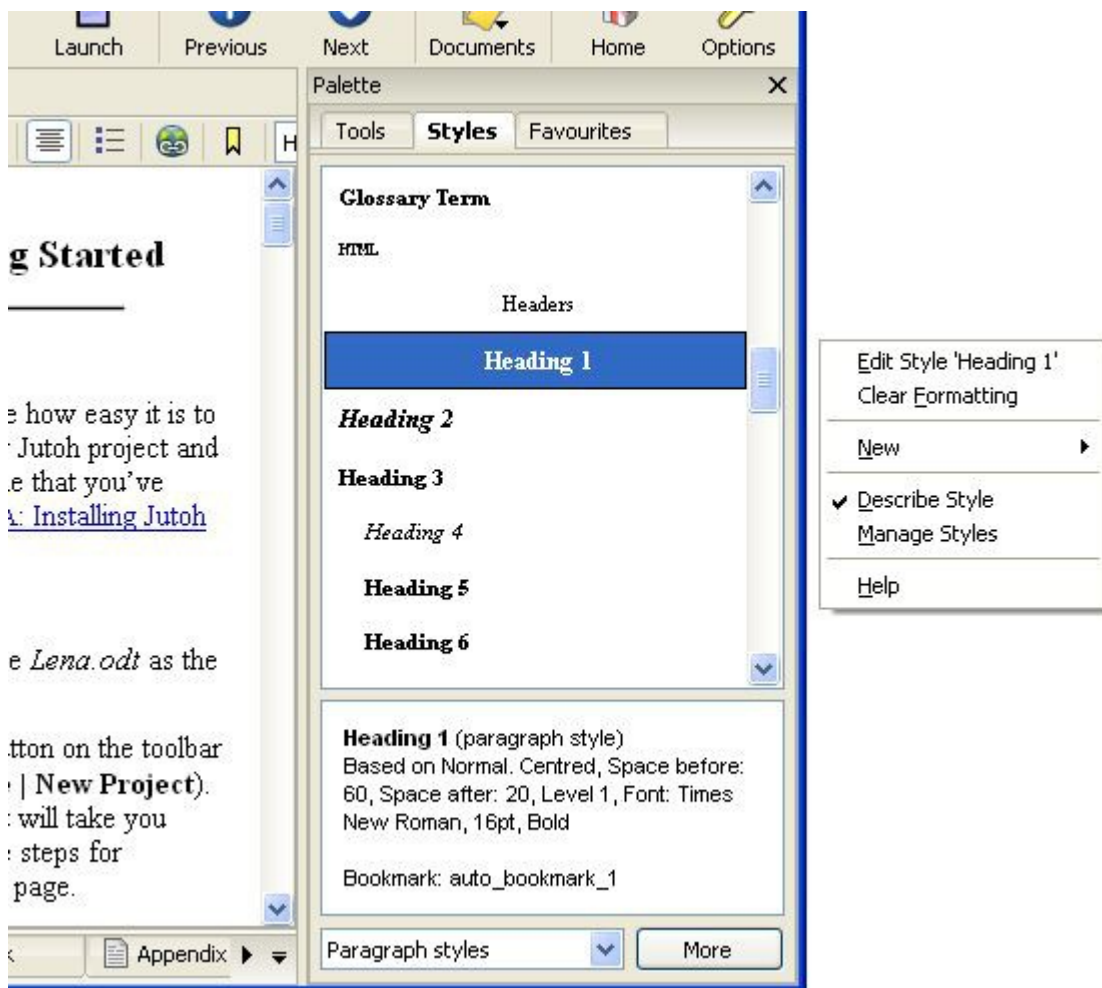
When Jutoh creates a new project for you, it creates a default style sheet with such styles as “Body Text First Indent”, “Heading 1” and “TOC Entry 1”. Some of these styles (such as “URL”) are used by features in Jutoh, in the case of “URL” for applying a link style in various situations, for example in a generated table of contents or for a page link. So it’s best not to delete the standard styles unless you really know what you’re doing.

Since you can have multiple style sheets in a project, the style sheet that’s being used and edited at any given moment is the one that’s specified in the *Style sheet* property of the currently selected configuration. You don’t need to concern yourself with that if you will only be using the default style sheet, but it’s worth bearing in mind in case the *Style sheet* property is changed accidentally.

When you’re starting a project, think about what styles you’re likely to need, and if necessary create them. A bit of foresight here will save you time later compared with simply applying *ad hoc* styles.

Using the formatting palette to apply styles

The formatting palette provides a convenient way to understand, apply and modify the styles in your project. The palette shows a list of styles to the right of your document, similar to the Styles and Formatting pane in Microsoft Word. In this picture below, the ‘Heading 1’ style is being shown, and there’s a description of the details of the style at the bottom:



The formatting palette and context/'More' menu

You can show or hide the formatting palette using the command **Format | Formatting Palette** or **Alt+P**; then click on the Styles tab. There are two other tabs in the palette: the Tools tab shows all the available tools that are also shown on the horizontal toolbar, and Favourites shows any styles, commands or symbols that you may have marked as favourites in the shortcut editor (see the next topic).

The formatting palette will only be presented when a document of the appropriate type is being edited; it will also disappear temporarily if you are using the built-in help window, to reduce clutter.

The style that's highlighted in the list is either the one where your cursor is currently positioned, or the style you have selected in the list with the mouse or keyboard. You can single-click on the styles without worrying about changing your project accidentally; this lets you browse the styles and read descriptions of them in the pane under the list.

To apply a style, double-click on the style name. A menu appears when you click on **More** or right-click over the style list (or press the context menu button on your keyboard, if there is one). This menu contains commands for editing the current style, clearing formatting in the current paragraph, showing and hiding the style description pane, managing your styles (showing the Project Properties dialog on the Styles tab), and creating new styles.

The **Clear Formatting** menu command works like **Reset Text Formatting** in the **Format** menu, if you have selected some text: character styling within the selection will be removed. It'll also reset character styling surrounding the cursor if you haven't selected anything. However if there is no selection and no character styling under the cursor, it will remove *ad hoc* (local) formatting from the paragraph. So, for example, 'Body Text + Centre' will become just 'Body Text'. If you select multiple paragraphs, Jutoh will remove both *ad hoc* paragraph and character styling.

You can choose what kind of styles appear in the list, using the drop-down control next to the **More** button. By default it shows paragraph styles, but you can also show character styles, list styles or all styles.

Applying styles using shortcuts and favourites

Especially if you have a lot of reformatting work to do, you'll appreciate a quick way to apply styles. Press **Ctrl+.** and then **Enter** to start editing shortcuts for the styles in your project. Scroll down the list of shortcuts until you get to the styles section; then edit each relevant style and choose a primary shortcut (direct) or secondary shortcut (prefixed with **Ctrl+.**). You can also check **Favourite** to have it appear in the Favourites menu, as described above under *Special symbols*. For more about this, see [Appendix B: Configuring Jutoh](#).

Using fonts

Ebook readers tend to have a limited range of fonts, so if possible, use as few fonts as possible. You're on safe ground if you use "Times New Roman", "Arial", and "Courier New". If you must use different fonts, specify them in the named paragraph style and not on an *ad hoc* basis.

You cannot use fonts that happen to be on your system and expect them to turn up on someone's ebook reader. If you have unusual font requirements, the only thing you can do is embed a font, and only then, for Epub only and for a minority of Epub-based readers. For this you need to have a copyright-free font, such as fonts from the DejaVu family. Embed it by adding an Embedded Font Document and specify a font substitution in your Epub configuration, such as Times New Roman: DejaVuSans. For more details, see [Chapter 15: Advanced Topics](#).

If your system doesn't have a particular font that's used in the project, then when the project is opened, Jutoh will use a special global string table called *Font Substitutions* to try to find an equivalent font that is available. If you use fonts not specified in this table, you can add more substitutions: go to Preferences, click Strings, select the *Font Substitutions* table, and add more strings or edit existing ones to add references to the other fonts. You can also change or disable the table that Jutoh uses via the setting Preferences/Advanced/Font substitution table.

If you're using Linux, you can get the standard Microsoft fonts so that your project files are compatible when switching between operating systems. On Ubuntu, you can find the "Restricted extras" package in the Software Centre, or use this command in a terminal window:

```
sudo apt-get install ubuntu-restricted-extras
```

Keep your main content, apart from headings, footnotes, captions etc., at 12pt – this is the point size that Jutoh regards as the 'default' size, and which can therefore be left unspecified in the generated ebook. The reader software, and user, will choose the best size. Any font above or below 12pt will be sized relative to the default font, using the HTML 'em' unit. The scaling factor to convert a point size in Jutoh to an em size in HTML can be adjusted in the Options panel in Project Properties, should you

wish to tweak the way text size is calculated.

Line and paragraph spacing

Line spacing is the space between lines within a paragraph; paragraph spacing comes in two parts: before a paragraph, and after a paragraph.

To edit spacing for a named style, go to the Styles tab in Project Properties (**Edit** on the main toolbar). Select a style, click **Edit** and then click on **Indents & Spacing**.

Paragraph spacing is specified in tenths of a millimetre, which is converted to ‘ems’ for Epub and HTML (see Options in Project Properties for the scaling value). Note that Mobipocket doesn’t register spacing that’s less than 25 tenths of a mm – so if spacing isn’t what you expected, go back and check the values.

Line spacing is specified in multiples of single line spacing, for example 1.2.

Don’t be tempted to simply leave a blank paragraph to get inter-paragraph spacing; some reader software may ignore this and it will be very hard to change your project if you decide to use less or no inter-paragraph spacing. The exception to this is the title page and other cases where you need more than the usual spacing; but even here it’s best to use a special style for each kind of vertical space, so you only need one blank paragraph at a time.

Indentation

First and subsequent line indentation for the left margin can be specified in a style, again under **Indents & Spacing** in the style editor. You can also specify the right indent, though it’s rare to need to do that. The value is specified in tenths of a millimetre. *Don’t use tabs for indentation!* Tabs are ignored in HTML-based formats.

Alignment

Paragraph alignment (left, right, centred, justified) can be specified in the **Indents & Spacing** tab in the style editor, or via the **Format** menu and toolbar commands. Generally it’s best to leave paragraph alignment unspecified, so that the ebook reader decides how to format text. But for list items, it can be better to force left-align since a short list item looks terrible when justified.

Note that if you justify text, it won’t show as justified in the Jutoh editor. However it will be justified when viewed in an ebook reader.



Headings

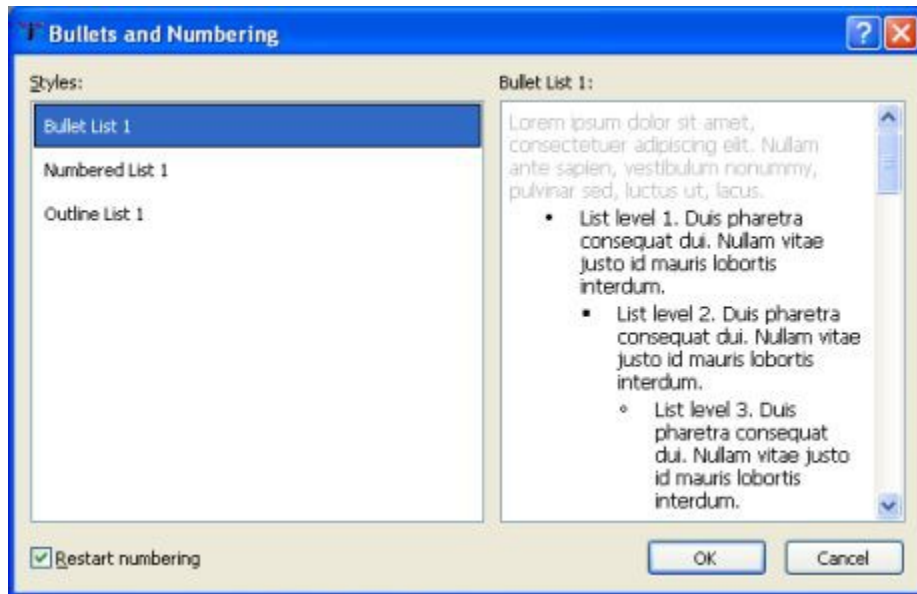
If you use heading styles of the form “Heading 1” then Jutoh will output the styles with the HTML heading tag (such as “h1”). Since HTML can override styling for headings, you can achieve more precise control of the end result by using heading styles of a different form, such as “Section Level 1”; or you can clear the *Heading style prefix* configuration property so that Jutoh doesn’t try to output “h” tags.

Lists

List styles are the only way to achieve bulleted or numbered paragraphs; you shouldn’t try to apply bullets to an individual paragraph, although the Bullets page of the paragraph style editor is retained in case you imported a bulleted paragraph and need to reset the attributes.

List styles work on the principle that lists can potentially be nested, with different bullet or numbering styles depending on the level (depth) of the list. When you are editing a list, pressing the **Tab** or **Shift+Tab** keys will increase or decrease the level of the current paragraph in the list. It is dependent on the particular ebook reader whether the particular bullet or numbering style will be honoured, so you may see a different style in the ebook than in Jutoh.

The  Bulleted List and  Numbered List buttons in the toolbar apply the styles called “Bullet List 1” and “Numbered List 1” respectively. To apply a different list style, use the **Format | Bullets and Numbering** menu command, which will give you a choice of list styles to apply, along with the option to renumber the list.



The Bullets and Numbering dialog

You can renumber a list without choosing a style, using the **Format | Renumber** command, and you can remove list styling from one or more paragraphs by clicking on a bullet or numbering toolbar button.

For any given paragraph in a list, both the paragraph style and list style are used. Since the current paragraph indent is added to the list style indent, choose a non-indented paragraph style for your lists to avoid a double indentation. Jutoh will warn you if you have used a paragraph style with indentation within a list.

You can have multiple paragraphs per list by placing the editor cursor just behind the bullet or number, and hitting the backspace key. This will turn the item into a ‘continuation’ paragraph without a bullet or number but with the same indentation as a regular list item. Note that for Mobipocket output, this is simulated by putting line breaks between list paragraphs since genuine multiple list item paragraphs are not possible in KF7 format. Jutoh will make an attempt to convert indented paragraphs in DOCX to continuation paragraphs according to the context, but if this is tripped up by complex formatting you will need to correct it within Jutoh by applying a list style and then ‘deleting’ the bullets.

Another way of creating list-like formatting but without using list styles is to use an indented paragraph style with a non-indented heading for the item heading. For example:

Apples

Apples are roundish in shape, and crunchy.

They come in a variety of, well, varieties, with Granny Smith being one of the most popular.

Bananas

Unlike apples, bananas are long, bendy and squishy.

They have their own convenient wrapper utilising a zip-like mechanism, and all too soon they turn black.

For more on list styles, see [Chapter 13: Working With Style Sheets](#).

Adding keywords

You can add keywords to your text, and if the configuration property *Replace strings in content* is enabled, keywords will be replaced by values in the compiled book. Keywords can come from string tables that you create, and also from your project metadata. The following metadata keywords are defined:

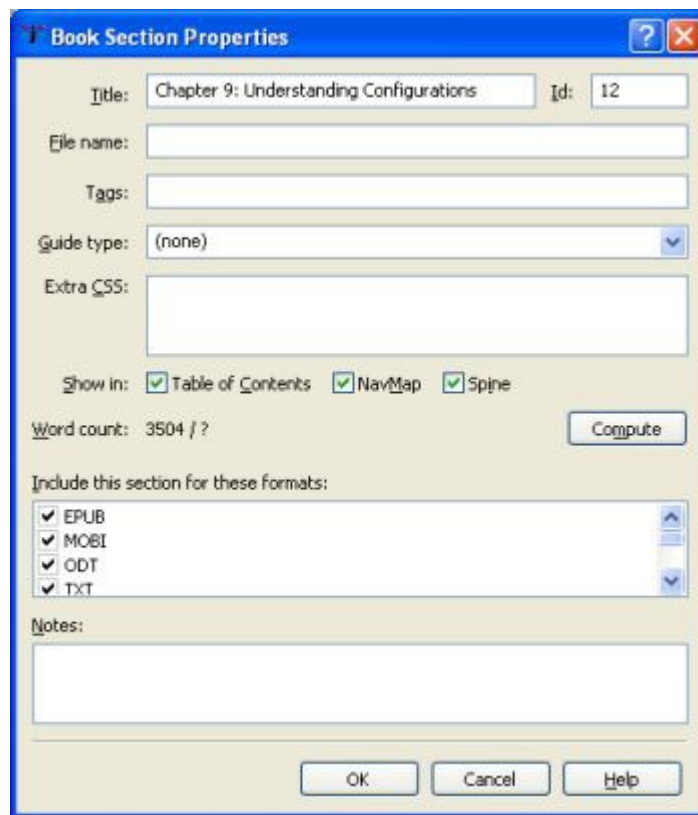
%TITLE%, %ID%, %LANGUAGE%, %AUTHOR%, %CONTRIBUTORS%, %PUBLISHER%,
%URL%, %SUBJECT%, %DESCRIPTION%, %DATE%, %RIGHTS%, %COVERAGE%, %TYPE
%, %FORMAT%, %SOURCE%, %RELATION%

This can be a useful facility if you wish to provide different editions with only slightly differing content, or to allow quick editing of text used throughout the book, or to abbreviate a long piece of text such as an HTML fragment. Keyword names are case-sensitive and each keyword must be formatted with a single or no style. You can read more about string tables in [Chapter 14: Working With String Tables](#).

Editing document properties

Although this isn't directly related to formatting, it's important to know how to edit properties associated with each book section document. To show the Book Section Properties dialog, you can do any one of these:

1. Right-click (or control-click on Mac) over the title of the book in the project outline and click on **Properties**.
2. Choose the **Document | Document Properties** menu command.
3. Press **Shift+Alt+Enter**.
4. In the Project Properties dialog, click **Document** and then **Edit Document Properties**.



The Book Section Properties dialog

Here, you can edit the title of the document, the guide type (see [Chapter 15: Advanced Topics](#) for information on guide types), an optional HTML file name, tags, extra CSS to be applied to this section only, whether to show the document in the table of contents, NavMap and spine (Epub/Mobipocket only), whether to include the section for a particular file format, and finally notes for this document.

You can add tags to allow for conditional inclusion or exclusion of the section in your ebook: for more on that, see [Chapter 15: Advanced Topics](#).

You can also see the word count for this document and the whole project (by clicking on **Compute**), and you can see the unique identifier of this document (not editable).


Summary

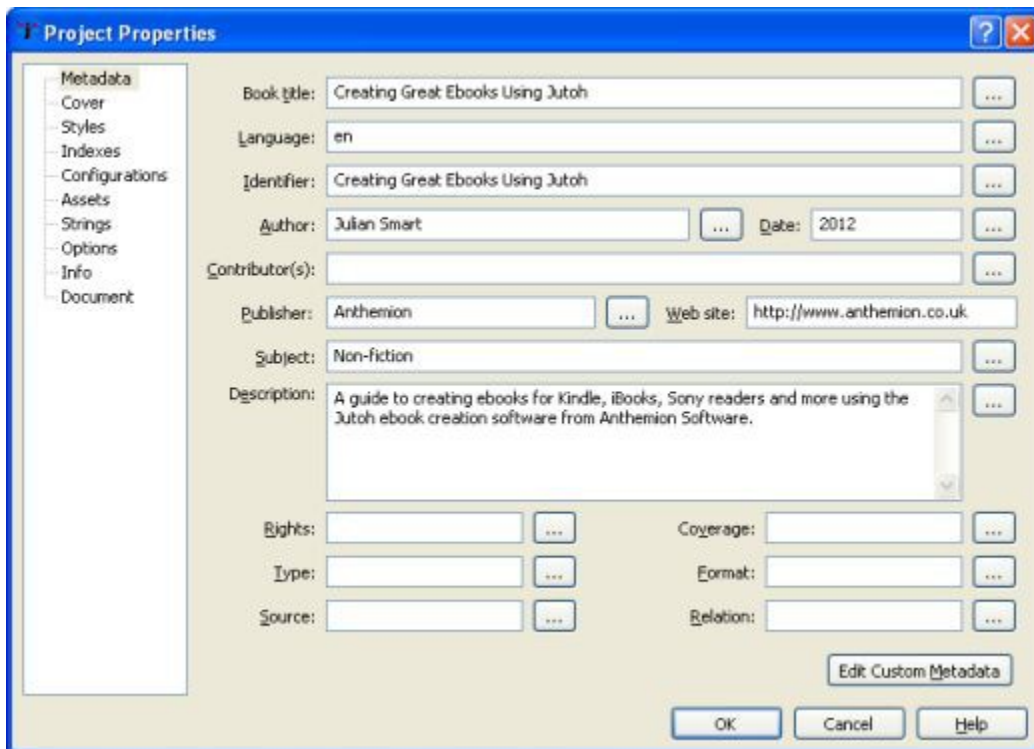
Now you'll have a good idea of what's possible with content editing and formatting, and how to accelerate your typing and styling using shortcuts and favourites. You can read more about styles in [Chapter 13: Working With Style Sheets](#). It's worth repeating an essential point: **create and use named styles wherever possible**, and don't use *ad hoc* formatting. When you come to tweak your book formatting, you'll be glad if you took this advice and planned ahead, rather than having to make potentially thousands of changes in your document. Next, we'll look at editing the project's metadata – the information describing the book.

Chapter 7: Editing Your Book's Metadata

Each project must have a minimal amount of metadata, which describes the project to the reading software to display if appropriate. It is required for Epub and Mobipocket formats. This chapter explains what metadata you should provide, and how to do it.

The metadata panel

When you create a project, you will be prompted for a small amount of the possible metadata that can be provided. You can edit more metadata via the Metadata tab of the Project Properties dialog (click on the  **Edit** toolbar button).

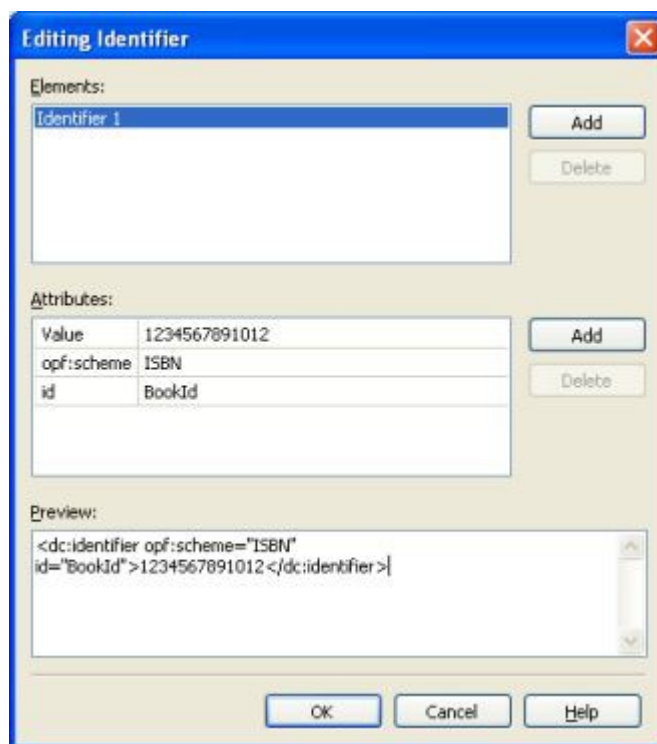


The metadata panel in Project Properties

A metadata field is called an element, in XML parlance. In most cases, there is one value per element. You can just type the value into the appropriate text field. For example, there is only title. However, in some cases, it's possible and desirable to provide multiple values per element (for example, multiple contributors); or to add a special attribute within the element, to make the meaning of the value clearer. To achieve either of these, click on the "..." details button next to a category to show the element editor.

Let's say we want to add an ISBN identifier. Click on the details button ("...") next to Identifier, and in the element editor dialog, click on the first **Add** button to add a new element value. This shows a menu of possible element templates; click on ISBN. This adds a new element with "opf:scheme" set to

“ISBN”. You can type the ISBN number into the Value property, and the XML that Jutoh will write to the metadata will be shown in the preview. In the following example of the element editor in action, we’ve deleted the original element so there’s only one kind of identifier in this book, the ISBN.



The Element Editor dialog

Some attributes have a convenient list of options; at present these are:

- “opf:scheme” in the Identifier element;
- “opf:role” in the Author element;
- “Value” in the Language element.

Metadata elements

These are the most common metadata elements. Only the title is obligatory in Jutoh – other fields that are mandatory for Epub and Mobipocket and that are not filled in, will be generated.

Book title

The book title.

Language

The language the book is written in, such as “en” for English or “fr” for French. If left unspecified, the default value is “en”. You can select from a list of languages if you click on the details button and click on the Value attribute.

It is important to specify the correct language, as otherwise ebooks can be rejected by some

distributors, and the wrong dictionary may be used on the ebook reader.

Identifier

The identifier for the book, which can be arbitrary (if the “opf:scheme” attribute is not specified), or it can be an ISBN; other kinds of identifier can also be used. Use the element editor to add different kinds of identifier. If left unspecified, the default value will be the title of the book.

Author

Type your name here; you can specify multiple authors via the element editor. This becomes the “creator” element in the metadata, and you can specify the creator roles using the element editor if you want to add creators other than author. If not specified, there will be no creator element in the metadata. For descriptions of attributes that give more information about the type of author, see:

www.loc.gov/marc/relators/relaterm.html

Date

Specify the date in the format YYYY-MM-DD, or YYYY-MM, or just YYYY (ISO 8601 standard). If not specified, the date of generation will be used. You can add an optional “opf:event” attribute which can be one of “creation”, “publication” and “modification”.

Contributors

You can have zero or more contributors. By default, Jutoh lists itself as a contributor. You can switch this behaviour off in your configurations. For descriptions of attributes that give more information about the type of contributor, see:

www.loc.gov/marc/relators/relaterm.html

Publisher

An optional field with the publisher’s name.

Web site

An optional field; this doesn’t have a direct equivalent in Epub metadata and uses a “relation” element since the web site is notionally a related publication.

Subject

The subject of the book. If this is not specified, “General Fiction” is used. There is no standard list of possible subjects, though your publisher might have some guidance.

Description

A description of the book.

Rights

An optional statement of the book rights.

Type

The optional book category (as defined by a particular publisher).

Source

Optional information about a resource from which the book was derived.

Coverage

An optional description of the extent or scope of the book's coverage.

Format

An optional book media type, such as a MIME media type.

Relation

An optional identifier of an auxiliary resource or related publication and its relationship to this publication.

Custom metadata

If any elements you require aren't catered for in the metadata panel, you can add custom ones by clicking the **Edit Custom Metadata** button at the bottom of the panel. You can add elements and then edit their values and edit multiple element values as with regular metadata. Unless you have advanced needs, you are unlikely to need this facility.

Viewing the generated metadata

If you want to see the actual metadata that Jutoh generates, which may differ slightly from the metadata you specify directly, you can generate an Epub file and use **F6** or **Book | Examine** and click on the file **content.opf**. The metadata is contained between the **metadata** start and end tags.

Specifying metadata defaults

It can be annoying to type in the same metadata for each project, so Jutoh allows you to set the default for the most important metadata values, in the Advanced panel of the Preferences dialog under *Metadata defaults*.



Summary

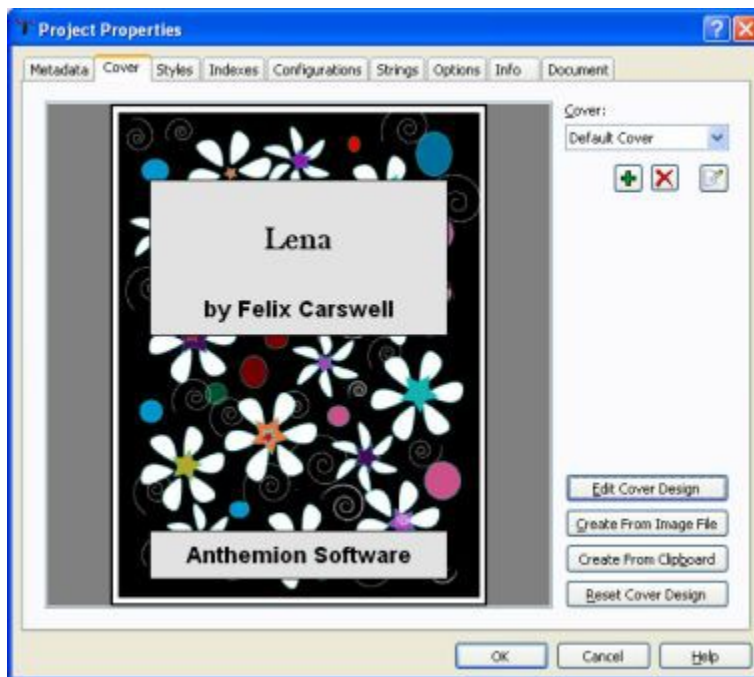
We've seen how to describe your book to the ebook reading software, and your readers. Next we deal with another important aspect for communicating what your book's about – the cover design.

Chapter 8: Creating Your Cover Design

An attractive cover design is important for catching the reader's eye as he or she scans through a web site or virtual shelves. Jutoh can help you create a cover from scratch using its built-in editor; or if you have an existing design, then Jutoh can use that. This chapter covers everything you need to know about using cover designs in Jutoh.

Cover design basics

The cover design does not appear as a section in your project under the 'Contents' folder; instead you edit it in Project Properties. A preview of the cover design will appear in the Build tab of the Control Panel. To edit the cover design, simply click on the cover image in the Control Panel, or click on the  **Edit** toolbar button and then on the **Cover** tab, or click on the  **Cover** toolbar button.



The Cover page in the Project Properties dialog

A good size for a cover image is 600 pixels wide by 800 pixels high. You can also look at the recommendations of the particular site or publishing platform you are using.

Because ebook covers are often shown as a small thumbnail on ebook sites, you need to make them readable when reduced to a small size; so simplicity is a virtue for ebook covers.

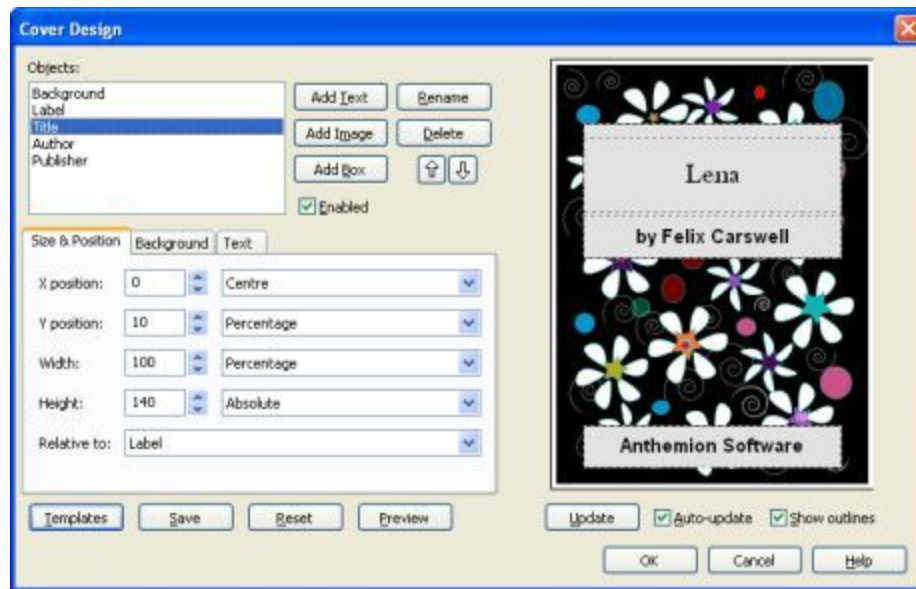
Using an existing design

If you have an existing image you wish to use, you can specify this in the New Project Wizard by selecting **Use existing file** in the Cover page and browsing for an image file.

Or, after you have created the project, start editing the cover within Project Properties and click **Create From Image File**. You can then choose a file to use.

Using the cover designer

In the Cover tab in Project Properties, click on **Edit Cover Design**. This will show cover designer dialog, shown below. A design comprises a list of rectangular objects, which are drawn from the top one first to the bottom one last, and so later objects will partially obscure earlier objects. The first object is always called “Background” and defines the overall size and the background colour or texture.



The Cover Designer dialog

Typically a design might have four other objects: one for making a ‘label’ area against the background, and three more for placing the title, author name and publisher name.

Add a new object with **Add Text**, **Add Image** or **Add Box**. They all add an object, but set up the initial values in different ways for convenience. You can **Rename** or **Delete** the selected object, and change the selected object’s order in the list with the up and down arrows.

You can save the current design as a template file to use for subsequent designs, using **Save**, and you can browse and apply other templates by clicking on **Templates**. Click on **Reset** to clear all objects apart from the background, and **Preview** shows the design at the actual pixel size.

The following topics describe the three tabbed editor pages, which are used to specify how the selected object is displayed.

Object size and position


In this page, adjust the size and position of an object using the up-down controls or by entering values manually. The X and Y positions can be absolute (relative to a parent object specified in the **Relative to** field), or a percentage of the parent, or centred with respect to the parent). The width and height can be absolute or a percentage of the parent. If no parent is specified, the object dimensions are relative to the background object, where applicable.

Object background

The object background page determines how the background texture is drawn.

The **Style** field takes one of a number of values:

- **Transparent** – the object is not drawn. This can be useful if the object is meant as a placeholder to be the parent object for other objects (for example, if the object represents the ‘label’ area of the book containing text).
- **Colour** – the object is drawn as a solid colour.
- **Image** – the specified image is drawn at the top-left of the object rectangle, without tiling or scaling.
- **Centred image** – the specified image is drawn centred within the object rectangle.
- **Tiled image** – the specified image is tiled to fill the object rectangle.
- **Stretched image** – the specified image is stretched to fill the object rectangle.

The **Texture** field shows either a solid colour or a specified image, depending on the Style setting. Click this field to choose a new colour or image, or you can paste an image into the field by clicking on the  **Paste** button.

The **Scale** field can be used to adjust the scaling of the image.

Border style can be None, Single, Double or Triple. A double border uses the two border colours specified underneath the style field, while the triple border style uses the first border colour, the object background colour, and then the second border colour (using **Border 2 Width** for both the inner and the third border widths).

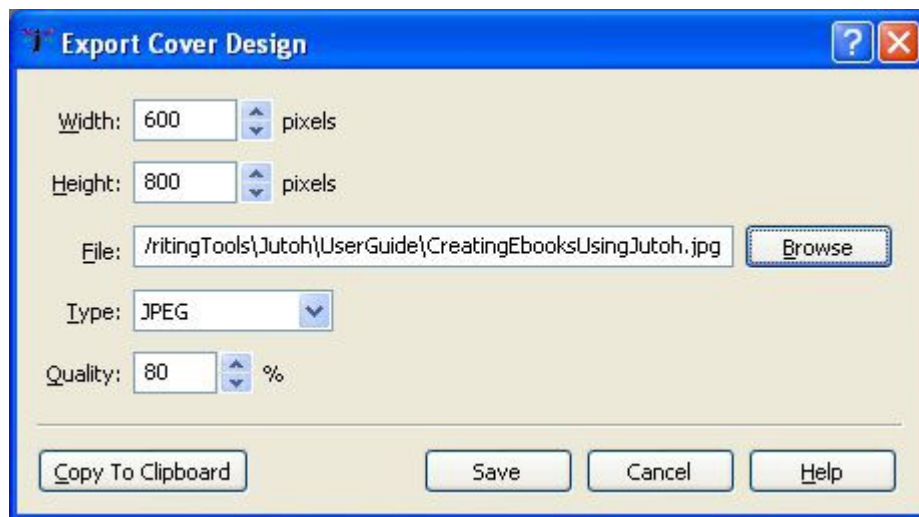
Text

Type text in the field provided if you wish to add text to this object. Click on **Insert Keyword** to see a choice of keywords that will be replaced when the cover design is regenerated. The keywords are taken from the metadata, and also from the currently selected global and project-specific string tables selected in the current configuration, if any.

You can also specify the font and the text colour.

Exporting your design

If you need a copy of your cover design, for example to upload to iTunes, you can export it to one of several popular image formats via **File | Export | Cover Design** using the Cover Design Export dialog.



Export Cover Design dialog

This will use the cover design indicated by the current configuration. You can select a different width and height from the values used in the book, and your design will be scaled to this size. You can also use **Copy To Clipboard** to paste the image into another application.

The cover page versus the cover image

If a design is specified, the image will always be included in the book. However, Jutoh can also generate an XHTML page that embeds the image. This is controlled by the configuration property *Generate cover page*. It is recommended that you enable this in your Epub configuration (unless uploading the Epub to Amazon without first converting to Mobipocket), and disable this in your Mobipocket configuration to avoid showing two covers.

If you check *Exclude cover from reading order* in your configuration, the cover page may not be shown as part of the book – for example, in iBooks, the cover will only appear on the bookshelf. If you want the reader to be presented with the cover page, clear this option. Don't clear this for Mobipocket files, however. Note that Calibre has an unusual interpretation of exclusion from reading order and shows such sections at the end of the book.

You can specify the *Cover page background colour* in your configuration to fill in the area around the image with colour.

Specifying the cover image format

Normally the cover image will be output as a JPEG file compressed at 90%, but if your cover contains line art, you might prefer to set the configuration property *Cover image format* to “PNG”. This will result in a larger but higher quality file.

A cover design can contain a variety of text and graphics that is scaled, combined and rendered to a bitmap before the image file is created. If you want to provide your own cover image and make sure that no extra processing is done to the image, you can set *Cover image format* to “Original”. Then the image you imported from a file will be the exact image that is used as the cover. For this to work, there must be only one object in the cover design.

Using multiple cover designs

Typically you will have one cover design per project. However, Jutoh lets you define any number of cover designs. You might wish to experiment with several alternatives, or you might use different covers to target different ebook vendors. In that case, you'd have several configurations, with a different cover name assigned to the *Cover design* property in each configuration. You can manage your cover designs in the **Cover** tab of Project Properties; they are listed in the drop-down control. Initially you will have just one cover design, called "Default Cover". You can add, delete and rename designs using the buttons under the drop-down list.

Cover display on different devices

On iBooks, you'll see the cover in the virtual bookshelf, but not once the book has opened. On Kindle, the book will start at the first main page and you'll have to page back to see the cover.

Summary

You now know how to add a cover to your project, from an existing design or from scratch using the built-in cover designer. Next, we'll tackle the topic of configurations – the mechanism Jutoh uses to allow you maximum control over each individual file format or ebook platform that you're targeting.

Chapter 9: Understanding Configurations

Ebook publishers often have slightly different requirements, even if the same format is used. You may also wish to tailor Jutoh's output for your own reasons. Jutoh's *configuration* feature lets you change the way that ebooks are generated, so that you can tweak the output for one format or ebook platform without affecting others. You may not need to worry about configurations for a bit but once in a while you may come across the need to change configurations or even add new ones; so it's worth at least scanning this chapter so you know where to look.

Configuration basics

At first glance, 'configuration' seems like a fancy name for 'format'. In the Build tab of the Control Panel, before compiling, you select the appropriate configuration such as 'Epub' or 'Mobipocket', each of which is generally named after the format it targets.


However, configurations are much more than that. They contain a whole host of user-editable options that will be used for that configuration; and you can add as many configurations as you like. So, for example, you might like to have two Epub configurations, called 'iBooks Epub' and 'Barnes & Noble Epub', with slightly different behaviour for each.

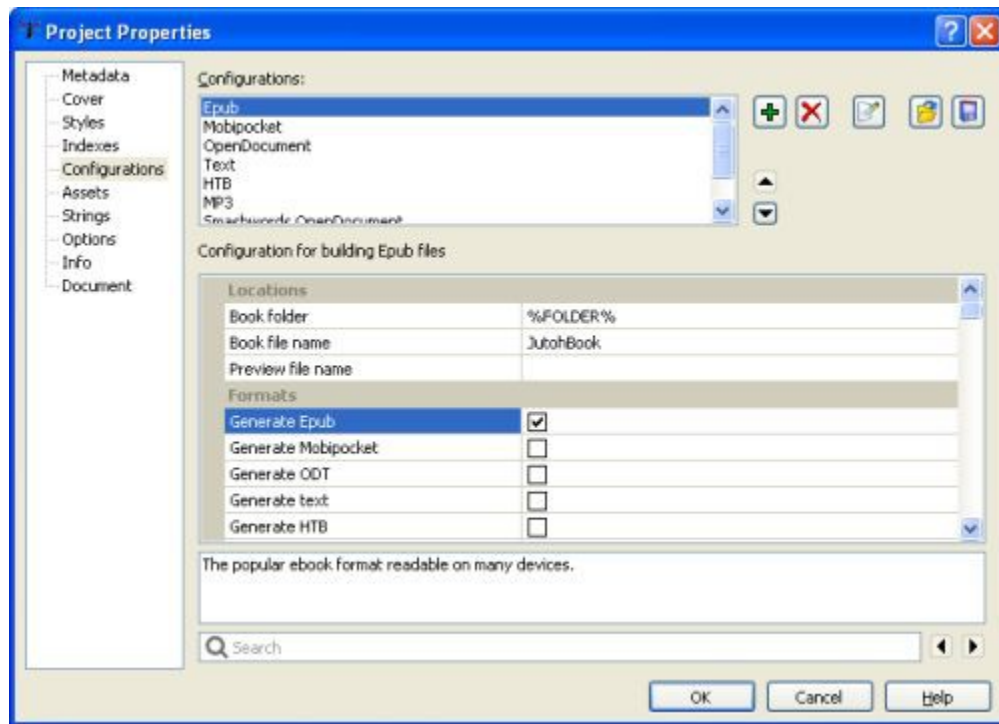
A configuration can specify which cover design or style sheet to use – so you can have alternate versions of your book with different cover designs or formatting, without having to maintain different versions of the book.

Or you could have different configurations for generating images with different sizes, tailored for use on different kinds of reader device.

When you create a Jutoh project, Jutoh's New Project Wizard presents you with the option to create an initial set of configurations, one per format supported. Generally you can leave the defaults as they are unless you know you definitely won't need some of them. Later, you can add, change and delete configurations.

Editing configurations

To edit a configuration, you can click on  **Edit** on the toolbar to show the Project Properties, and then click on Configurations. Or, you can click on the **Edit** button next to the drop-down list of configurations in the Control Panel; this will show you the currently-selected configuration.



The Configurations tab in the Project Properties dialog

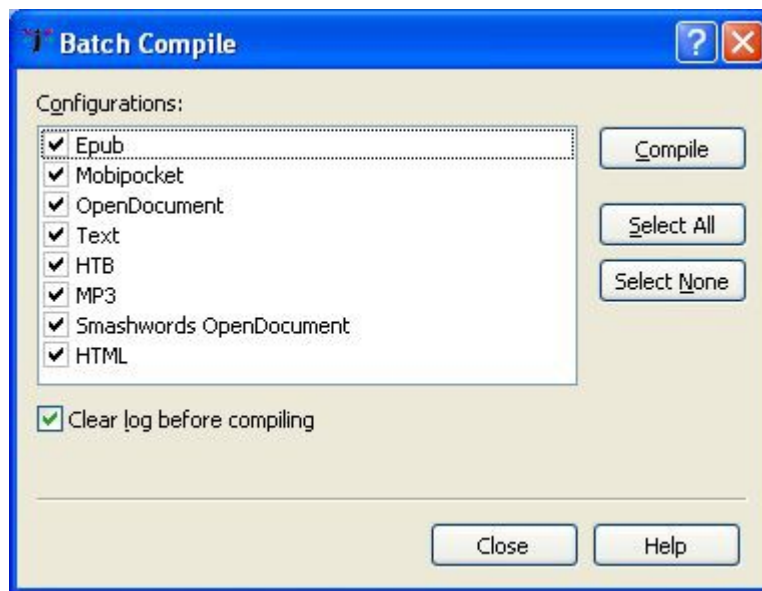
Configuration properties are presented in a scrolling list, with names on the left and editable values on the right. Click on a property to see its description, displayed under the list. You can double-click on some properties (such as *Notes*) to show a larger text editor. To make it easier to find properties, you can type all or part of the property name in the search box at the bottom of the window; use the left and right arrows to cycle through the matches, selecting each matching property in turn. You can press the Return key to give the keyboard focus back to the property editor.

You can add a new configuration by clicking on **+ Add** – you will be given the option of basing the new configuration on an existing one (the values will be copied to the new configuration). If an existing configuration is not chosen, Jutoh prompts for a format and does some initialisation appropriate to the format. You can delete the selected configuration with **✗ Delete**, and change its name with **✎ Rename**. If you want to apply the same configuration settings to a different project, you can **💾 Save** selected configurations to a file and then **📂 Load** them in the other project. Use the up and down arrows to reorder configurations in the list.

Using configurations

You can select the current configuration in the control panel to the left of the Jutoh editor. This configuration will be used to determine paths and other settings for **Compile**, **Check** and **Launch** commands.

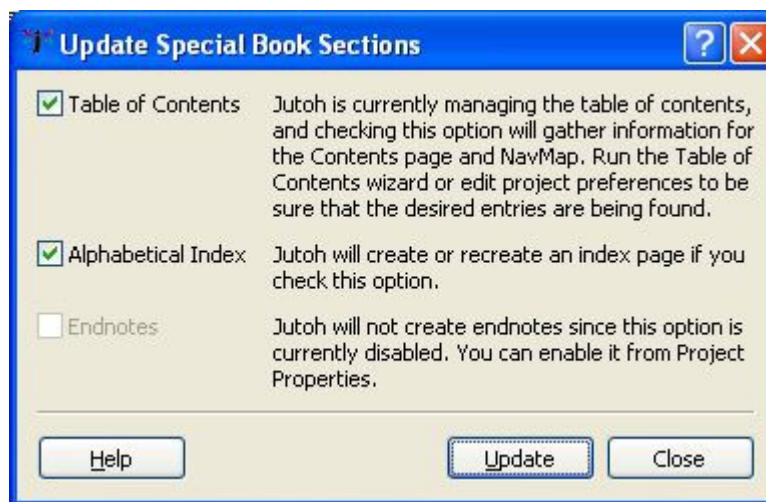
To compile a book using the current configuration, click on the **Compile** button on the Control Panel, or click on the **⚙️ Compile** button on the toolbar, or use **Book | Compile** menu command, or use the **F7** keyboard shortcut. If you prefer, you can compile using multiple configurations in one go, using the **Book | Batch Compile** command; a choice of configurations to use is presented, as shown below.



Batch Compile dialog

Note that if you use the **File | Export** menu command to quickly export your book to a specified format, any formats specified in the currently selected configuration are temporarily overridden. All the other settings in the current configuration will be used for the export, so normally it's best to select the best configuration for the job and press **Compile**.

While we're talking about compiling, it's worth pointing out that you can use the Update Special Book Sections dialog instead of updating the table of contents, index, or endnotes individually from their respective dialogs.



Update Special Book Sections dialog

If any of these special sections are out of date since the last compile (for example, you added headings, index entries or footnotes), you can show this dialog using **Book | Update** or **F9**, and click **Update** to update all checked special sections. Note that you can also elect to automatically update these sections when you compile (via controls in the Project Properties dialog), so you can be sure they are always

up-to-date.

Configuration categories

Let's look at the property categories in some detail.

Locations

This category contains location-related properties. Usually you don't need to edit these.

- *Book folder*: used to specify the folder in which the ebook for this configuration will be generated. The folder containing the project will be substituted for the keyword %FOLDER%, which is the default value.
- *Book file name*: this is %FILENAME% by default; you might want to change the name if you have multiple configurations for the same format. Note that an appropriate extension will be appended so you don't have to include that in your file name value. For example, if your project is called MyBooks, you could use "%FILENAME%_ibooks" to specify "MyProject_ibooks.epub".
- *Preview file name*: this is only used for the HTML format where there may be multiple files generated, and indicates which file should be used when previewing (launching) the generated book.

Metadata

This category contains just one property, *Identifier*.

- *Identifier*: The unique identifier for your book. If the Identifier metadata field is left empty, the identifier for the current configuration is used. Note that initially, Jutoh generates a different UUID for each configuration.

Formats

Each configuration should have at least one format checked. You can have multiple formats checked, but this is not usually desirable. The one case where you might like to do that is in your Mobipocket configurations; if you also check Epub you will be able to check and view the source for your Mobipocket books.

These are the supported formats:

- *Generate Epub*: generates Epub 2 or 3 output depending on the value of *Epub version*.
- *Generate Mobipocket*: generates Mobipocket output, suitable for Amazon Kindle devices and software.
- *Generate ODT*: generates OpenDocument Text, a word processor format that can be converted to many other formats such as Word, using for example the free OpenOffice.org suite. Note that Word itself tends to create more compact .doc files than does OpenOffice.org, so you might want to re-save the file using Word if file size is an issue.
- *Generate text*: generates a single plain text file with no graphics.
- *Generate HTB*: generates a wxWidgets Help file, a simple zipped, HTML-based format.
- *Generate MP3*: generates MP3 files if you select a suitable voice engine and install the LAME

MP3 encoder in Preferences (MP3).

- *Generate HTML*: generates a series of XHTML files. Book navigation controls can be enabled via properties in the “Navigation” category below.

Cover Design

This category gives you control over the way Jutoh generates the cover design and cover page for your book.

- *Cover design*: specifies the cover design to be used in this configuration.
- *Cover page background colour*: specifies an optional background colour for the XHTML page that contains the cover (Epub only). This RGB value should contain six hexadecimal digits, two digits per colour. To edit the colour, double click on the property name or click on the ‘...’ button. You might like to provide a background colour chosen from the cover image for filling in the area around the image.
- *Generate cover page*: check to generate an XHTML cover page for the book. Not recommended for Mobipocket.
- *Expand cover to fit page*: check to have the cover expand to the page height.
- *Include cover in NavMap*: check to include the cover in the navigation map – not recommended.
- *Exclude cover from reading order*: check to hide the cover from the linear reading order (*linear=no* in the spine) – recommended. If this option is checked, the cover page may not be shown as part of the book – for example, in iBooks, the cover will only appear on the bookshelf. If you want the reader to be presented with the cover page first instead of the title page, clear this option. Don’t clear this for Mobipocket files, however. Note that Calibre has an unusual interpretation of exclusion from reading order and shows such sections at the end of the book.
- *Cover image format*: specifies the image format for the cover design. If “Original” is specified, and the cover design has only one image object (for example, it was created from an existing cover image file), then the original file is used without change.
- *Cover image width*: specifies the cover image width in pixels, or -1 to use the default cover design width.

Options

This category contains miscellaneous options controlling how Jutoh generates ebook output.

- *Generate title page*: check to generate a title page for the book. It’s usually better to create your own by hand.
- *Generate table of contents*: check to generate a table of contents page for the book, either automatically (it will not be visible in the project) or manually whenever you run the TOC wizard (it will be visible in the project).
- *Generate guide*: check to generate a guide section in the OPF file – recommended.
- *Generate title tag*: check to generate a *title* tag for each HTML file.
- *Optimize for iBooks*: various optimizations are applied. In particular, dummy spans are added to

centered paragraphs in order to fix centering in full justification mode. Use *Generate font names* to determine whether the specified-fonts option will be switched on in the iBooks XML file, or whether font names will be suppressed. This option will cause a file called `com.apple.ibooks.display-options.xml` to be added to the Epub file, under the folder `META-INF`. If you submit the Epub to Lulu, this may cause an “unmanifested file” error, so clear this option for Lulu submissions.

- *Generate iBooks XML*: if this option and *Optimize for iBooks* are both checked, generates the file `com.apple.ibooks.display-options.xml` when necessary.
- *Optimize for Mobipocket*: anchors are inserted before paragraphs to prevent style loss on navigation (as recommended by Amazon guidelines), and no paragraph tags are used within a list item.
- *Mobipocket anchor optimization*: if cleared, and *Optimize for Mobipocket* is checked, anchors are no longer inserted before paragraphs. You might want to clear this if you have long paragraphs containing footnotes, for example, and want to achieve accurate navigation regardless of any styling side-effects that can be caused by bookmarks within paragraphs on the Kindle platform.
- *Credit Jutoh*: adds Jutoh as a book producer in the Epub/Mobipocket metadata.
- *Start page guide type*: specifies the guide type that will be substituted for `%STARTPAGE%` in a section’s guide type to indicate the first reading page. For iBooks, it is “other.reader-start-page”, and for Mobipocket, it is “text”.
- *Visible URLs*: specifies whether the URL will be added to the text, for printable documents. If “None”, no URLs will be added. If “Always”, the URL will always be added. If “Intelligent”, Jutoh will check whether the URL is already in the linked text.
- *Epub version*: Specifies the Epub version to generate. Epub 3 generation is currently experimental.

Styles

This category controls style-related options. More about styles can be found in [Chapter 13: Working With Style Sheets](#).

- *Style sheet*: specifies the style sheet to be used in this configuration.
- *Paragraphs to exclude*: the comma-separated paragraph styles whose paragraphs should be excluded from the book. You can use * to mean all characters, for example “Only*” will cause all paragraphs with a style name beginning “Only” to be excluded, *except* for those specified in *Paragraphs to include*. For examples, see [Chapter 13: Working With Style Sheets](#).
- *Paragraphs to include*: the comma-separated paragraph styles whose paragraphs will be exempt from exclusions. You can use * to mean all characters. For example, if this property has the value of “Only Epub”, paragraphs styles with “Only Epub” will be retained, but (assuming “Only*” in *Paragraphs to exclude*), all other paragraphs whose style name begins with “Only” will be removed. Thus you can include or exclude paragraphs in your document depending on the configuration. For examples, see [Chapter 13: Working With Style Sheets](#).
- *First paragraph style*: the style to use for first paragraphs after a heading when importing into

an existing project from plain text, HTML or Epub.

- *Normal paragraph style*: the style to use for normal paragraphs when importing into an existing project from plain text, HTML or Epub.
- *Chapter heading paragraph style*: the style to use for chapter headings when importing into an existing project from plain text. Only relevant if you have **Take title from first line of text files** switched on in Project Properties/Options.
- *Character style substitutions*: Semicolon-separated character style substitutions, for example “Drop Caps: Drop Caps Epub; Emphasis: Red Emphasis”. This allows you to adjust styles per configuration without needing to use a different sheet.
- *Paragraph style substitutions*: semicolon-separated paragraph styles substitutions, for example “Normal: Normal Justified; Centred: Centred Bold”. This allows you to adjust styles per configuration without needing to use a different sheet.
- *Heading style prefix*: a prefix for determining whether a style is a heading for the purposes of HTML generation. The default is “Heading”. Clearing this field will prevent Jutoh from generating <h> tags. Note that from Jutoh 1.67, the generated CSS overrides heading formatting (if *Heading style prefix* specifies a valid prefix for existing heading styles) and so heading styles should be displayed as specified in Jutoh, and not according to ereader heading defaults.
- *Styles suppressing hyphenation*: A pattern matching all styles that should suppress hyphenation. Multiple patterns containing wildcards (*) and (?) can be separated by the pipe character (|). For example, “Heading*|Book Title”. This works for Epub only, and generates the extra CSS `adobe-hyphenate: none; hyphens: none;`.
- *Styles suppressing page break before*: a pattern matching all styles that should suppress a preceding page break. Multiple patterns containing wildcards (*) and (?) can be separated by the pipe character (|).
- *Styles suppressing page break after*: a pattern matching all styles that should suppress a following page break. Multiple patterns containing wildcards (*) and (?) can be separated by the pipe character (|).

String Tables

Jutoh’s *string tables* feature allows customisation of metadata, cover design text and book content per-configuration, by substituting one string for another. This category controls how the configuration uses existing string tables. For more information, see [Chapter 14: Working With String Tables](#).

- *Project string table*: specifies the project string table to be used in this configuration, if any. Project strings override global strings.
- *Global string table*: specifies the global string table to be used in this configuration. Project strings override global strings.
- *Replace strings in content*: check to replace strings in book content as well as metadata and cover designs.

HTML Formatting

This category contains various options used for HTML-based formats.

- *HTML left margin*: sets a global left margin for Epub and HTML formats (not Mobipocket). Examples: 3%, 10mm, 0.2in, 20px. To remove the margin, clear the value.
- *HTML right margin*: sets a global right margin for Epub and HTML formats (not Mobipocket). Examples: 3%, 10mm, 0.2in, 20px. To remove the margin, clear the value.
- *HTML top margin*: sets a global top margin for Epub and HTML formats (not Mobipocket). Examples: 3%, 10mm, 0.2in, 20px. To remove the margin, clear the value.
- *HTML bottom margin*: sets a global bottom margin for Epub and HTML formats (not Mobipocket). Examples: 3%, 10mm, 0.2in, 20px. To remove the margin, clear the value.
- *Styles for indent fix*: specifies the styles whose left indent should be converted to a first-line indent, to fix the lack of full left indent support on Mobipocket (only). By default this is “TOC*”. To stop any such conversion, clear this setting. You can use star (*) to match multiple characters in the style name.
- *Use relative dimensions*: Jutoh can use the relative unit *em* to specify dimensions such as indentation and paragraph spacing, or it can use *mm*. If this option is checked, *em* is used and this allows better scaling when the text size is changed by your book audience. However, Mobipocket doesn’t allow precise specification of dimensions when using *em*, so it’s recommended to clear this option for Mobipocket and enable it for Epub and HTML formats.
- *Dimension units*: choose the units to use for non-font dimensions such as margin and size. Some platforms require pixel units for fixed layout books. If you specify “Default”, Jutoh will decide what units to use.
- *Font size units*: Choose the units to use for font sizes. Some platforms require pixel units for fixed layout books. If you specify “Default”, Jutoh will decide what units to use.
- *RTL direction*: sets all paragraph styles to have right-to-left text direction.
- *URL attribute removal style*: specifies the character style containing URL attributes to remove, so that only the default link attributes specified by the book reader software (or in custom CSS) will be used. For example, if you specify “URL” in this property containing blue and underlining attributes, then blue underlined links will have both attributes removed in the final book. However if a link was styled with red, then the red colour will be retained, and just any underlining removed. If this property is set to “(none)” or left empty, then no attribute removal will be done.
- *Use heading text size*: if enabled, text sizes will be written for styles that match *Heading style prefix*. Clear this to use the ebook viewer's default heading sizes.
- *Abbreviate style names*: if enabled, style names in the HTML and CSS files will be abbreviated instead of being derived from the original style names.
- *Optimize style sheet*: if enabled, Jutoh will remove unused styles from the CSS style sheet.
- *Emulate small caps*: if enabled, Jutoh emits actual capitals and a smaller font size, for viewers such as ADE that ignore the font-variant attribute. On by default.
- *Convert horizontal bar to em dash*: converts Unicode 8213 (horizontal bar) to Unicode 8212 (em dash) and adds a non-breaking span. Some Epub viewers, such as Adobe Digital Editions,

do not support horizontal bar, and it is essential punctuation for Spanish. For the non-breaking behaviour to work, the bar and non-space character to the left or right of the bar must be formatted in the same (or no) character style.

- *Convert non-breaking hyphen to hyphen*: converts Unicode 8209 (non-breaking hyphen) to an ordinary hyphen and adds a non-breaking span. Some Epub viewers do not support a non-breaking hyphen. For the non-breaking behaviour to work, the hyphen and non-space character to the left or right of the hyphen must be formatted in the same (or no) character style.
- *Add thin spaces around punctuation*: inserts non-breaking thin spaces around punctuation to conform with typographical convention for French books. If there is white space already in position, it is replaced by the thin space, but existing white space is not necessary.
- *Thin space entity*: the HTML code to use for a thin space. By default, it is ` `. Not all fonts support this entity; you can sometimes work around it for Epub files by embedding a font that supports it. Some but not all Kindle devices will render it correctly. Or, you can use an image instead, although this can slow down rendering considerably. This code will insert an image (you should also add a media document with a suitable small, white bitmap):
``
- *Orphan control for single-letter words*: inserts non-breaking spaces after single-letter words to avoid orphan words at the end of lines.
- *Character substitutions*: Semicolon-separated pairs of decimal Unicode substitutions. For example the value “8239:160;8201:160” would convert two kinds of thin space to non-breaking spaces.
- *Use div tag*: determines whether the `div` tag is used instead of `p`.
- *Extra metadata*: extra meta elements for the metadata section of the Epub or Mobipocket OPF file.
- *Widow control*: A widow is the last line of a paragraph appearing alone at the top of a page. This option specifies the minimum number of lines of a paragraph that appear at the top of a page. Use ‘Default’ to use the ebook defaults, ‘None’ to switch off widow behaviour, or a number for the minimum number of lines.
- *Orphan control*: An orphan is the first line of a paragraph that appears on its own at the bottom of a page. This option specifies the minimum number of lines of a paragraph that must appear at the bottom of a page. Use ‘Default’ to use the ebook defaults, ‘None’ to switch off orphan behaviour, or a number for the minimum number of lines.
- *Namespaces*: Specifies the XHTML namespaces.

Text Formatting

This category contains options for plain text and ODT (OpenDocument Text) output.

- *Wrap paragraphs*: check to wrap paragraphs at the maximum number of characters per line, for text output only.
- *Add blank lines*: check to add blank lines between paragraphs, for text output only.
- *Characters per line*: the maximum character per line if wrapping, for text output only.

- *Left margin*: the left page margin in mm, for ODT output only.
- *Right margin*: the right page margin in mm, for ODT output only.
- *Top margin*: the top page margin in mm, for ODT output only.
- *Bottom margin*: the bottom page margin in mm, for ODT output only.
- *Paper size*: the paper size, for ODT output only. The default is A4.
- *Custom paper width*: the custom paper width, for ODT output only. Specify mm (the default), cm or in. If custom width and height are both specified, the values will override the *Paper size* selection.
- *Custom paper height*: the custom paper height, for ODT output only. Specify mm (the default), cm or in. If custom width and height are both specified, the values will override the *Paper size* selection.
- *Mirror margins*: Check to mirror page margins, for example when creating a gutter for print on demand. For ODT output only.
- *Dots per inch*: the assumed number of dots per inch for images, used if no absolute dimensions are specified. For ODT output only. The default is 96.

Images and Media

This category contains options allowing you to control various aspects of image (picture) output. For more about images, see [Chapter 11: Working With Pictures](#).

- *Maximum image width*: the maximum image width to use in your book. Specify -1 for no scaling. Note that this physically scales the image before it is written to the ebook, rather than simply setting the `max-width` CSS property. In contrast, *Limit images to viewer size* sets the `max-width` and `max-height` properties so scaling is done dynamically.
- *Maximum image height*: the maximum image height to use in your book. Specify -1 for no scaling. As with *Maximum image width*, this physically scales the image.
- *Maximum image width units*: units for the maximum image width and height – pixels or percentage.
- *Maximum image optimization width*: maximum image width to optimize; -1 for no optimization. Optimization improves quality for smaller images, but takes longer.
- *Limit images to viewer size*: whether to limit images to the maximum width and height of the viewer (Epub format only). Images smaller than the viewer size will show at their original size. The setting works by adding `max-width:100%` and `max-height:100%` styles, unless overridden by individual image settings. Note that some viewers, such as Nook, Aldiko and ADE, erroneously expand images that have their maximum width or height set. The fix is to specify the width (and/or height) in pixels or other units in the image properties. For example, if the image is 300x500, specify 300px in the **Width** field.
- *Flatten images*: whether to flatten (remove alpha channel from) any images containing alpha transparency.
- *Convert images to JPEG*: whether to convert non-JPEG images to JPEG for reduced file size.

Specify “None” to leave the images in their original format, “All” to convert all non-JPEG images, and “All except GIF” to leave GIF files alone but convert the others. You can override conversion per image by checking **Preserve original format** in the Image Properties dialog.

- *Image quality*: the image quality when converting to JPEG, expressed as a percentage. Higher quality means larger file size; a good value for general use is 80%.
- *Generate media objects*: if enabled, any video and audio media files, and the tags that reference them, will be written to the book (XHTML formats only).
- *Use specified image names*: if enabled, names entered in the Image Properties dialog will be used to form image file names. It will be up to the user to specify unique filenames except where the same image is being used. Epub and Mobipocket only.
- *Use SVG images*: check to use SVG vector image alternatives where specified for each image. The SVG image should be added as a media object, and *Generate media objects* should be enabled. XHTML formats only.

Advanced Formatting

This category contains options for controlling the way special formatting is output – whether to use special fields for the word processor to use, or by generating the content explicitly.

- *Special index formatting*: check to output index entries as special items, if supported by the target format. If this option is cleared, links and an index page will be output explicitly. Smashwords ODT requires this to be switched off.
- *Special footnote formatting*: check to output footnotes and endnotes as special items, if supported by the target format. If this option is cleared, linked footnotes or endnotes will be output explicitly. Smashwords ODT requires this to be switched off.
- *Use outline levels*: check to output outline levels if specified in your heading styles. Currently applies to ODT output only, where checking this option allows a table of contents to appear in PDF files generated by OpenOffice.org Writer or LibreOffice Writer.

Chapter Separators

This category controls the output of textual separators between sections. By default there are no separators.

- *Add chapter separators*: check to output an extra paragraph at the end of each chapter, to visually separate one chapter from the next.
- *Chapter separator text*: the text to add at the end of a chapter.
- *Chapter separator style*: the paragraph style of the text to add at the end of a chapter.

Fonts and Colour

This category contains options related to font handling.

- *Embed fonts*: check to embed any fonts listed under Resources.
- *Font substitutions*: semicolon-separated font substitutions, for example “Times New Roman: Deja Vu Serif, Times New Roman; Arial: Deja Vu Sans”. This allows you to use embedded

fonts in place of the font specified in your book, and you can use a list of comma-separated names for fallbacks. This only works for XHTML-based formats, and not on all ebook platforms.

- *Generate font names*: clear this to use the reader default font name. If checked, enables the specified fonts in iBooks (specified-fonts option in *com.apple.ibooks.display-options.xml*).
- *Generate generic font names*: clear this to avoid generating generic font names for HTML-based formats. The generic names are serif, sans-serif, cursive, fantasy, monospace. If you disable both this and *Generate font names*, no font-family attribute will be written to the CSS.
- *Generate colour*: clear this to avoid generating any colour style information.

Mobile

This category contains options for tailoring the way HTML pages are displayed in mobile devices.

- *Enable viewport*: enables viewport meta tag for mobile browsing (HTML and Epub formats only).
- *Viewport content*: the content of the viewport meta tag for mobile browsing (HTML and Epub formats only). The default value is “initial-scale=1.0, maximum-scale=1.0, user-scalable=no, width=device-width” which keeps the formatting appropriate to the width of the device.

Fixed Layout

This category contains options relating to fixed layout ebooks. Currently, fixed layout books are supported on iBooks only; specify the page (image) width and height, and use one image per section. Switch off automatic table of contents and title page generation since no sections should contain reflowable text.

- *Enable fixed layout*: enables fixed layout. This currently affects Epubs on iBooks only.
- *Orientation lock*: Specifies the orientation lock, to avoid the book being rotated automatically when the device is rotated. Supported by iBooks and Kindle Fire.
- *Page width*: The page width for fixed layout content.
- *Page height*: The page height for fixed layout content.

Navigation

This category contains options for tailoring the way navigation is supported in HTML pages (for the HTML format only). HTML templates specified here will be inserted into the HTML pages. Navigation controls can be placed at either the start or end of the page, or both. For each header or footer, there are three templates, to account for the fact that the presence of Next and Previous links will change according to whether you are currently viewing the first page, the last page, or the pages in-between. The default HTML templates give reasonable navigation between pages using text links; you could provide more fancy navigation, perhaps using images that you copy to the folder of HTML files after generation by Jutoh.

In the HTML templates, you can use these keywords: %TOCFILE%, %TOCTITLE%, %PREVIOUSFILE%, %PREVIoustITLE%, %NEXTFILE%, %NEXTTITLE%, %FIRSTFILE%, %FIRSTTITLE%, %LASTFILE%, %LASTTITLE%, %THISFILE%, %THISTITLE%. They will be

replaced by the associated HTML file names and section titles.

- *Enable HTML header*: enables navigation controls at the top of each HTML page.
- *Enable HTML footer*: enables navigation controls at the bottom of each HTML page.
- *HTML header first page template*: specifies the HTML to be placed in the header, for the first page in the book.
- *HTML header middle pages template*: specifies the HTML to be placed in the header, for all but the first and last pages in the book.
- *HTML header last page template*: specifies the HTML to be placed in the header, for the last page in the book.
- *HTML footer first page template*: specifies the HTML to be placed in the footer, for the first page in the book.
- *HTML footer middle pages template*: specifies the HTML to be placed in the footer, for all but the first and last pages in the book.
- *HTML footer last page template*: specifies the HTML to be placed in the footer, for the last page in the book.

Conditional Sections

This category lets you include or exclude sections from the final ebook. Note that if you use these properties to change the way sections are included in your book, you will need to regenerate the table of contents, alphabetical index, and endnotes for each configuration since these will also change according to configuration.

- *Include sections matching tags*: enter a comma-delimited set of tags which match against tags specified in the Properties dialog for each section. For a given section, if any of the tags specified here are mentioned in its own tags, or this property is empty, the section will be included in the book.
- *Exclude sections matching tags*: enter a comma-delimited set of tags which match against tags specified in the Properties dialog for each section. For a given section, if any of the tags specified here are mentioned in its own tags, the section will be *excluded* from the book.
- *Include media documents matching tags*: comma-delimited tags matching tags of media documents that should be included. If no tags are specified, all media documents match.
- *Exclude media documents matching tags*: comma-delimited tags matching tags of media documents that should not be included. If no tags are specified, all media documents match.

Commands

Sometimes you may wish to execute an external command before or after the compilation of your book. These properties allow you to specify such commands. Note that if executing a command using an interpreter such as Java or Python, you must specify the interpreter command in addition to the script to be executed.

Here's an example command that runs the Kindlestrip program:

```
c:\python27\python.exe c:\apps\kindlestrip1.35\kindlestrip.py "%FOLDER%\%FILENAME%.%EXT%" "%FOLDER%\%FILENAME%_new.%EXT%"
```

- *Pre-compile command*: a command to execute before compilation. You can use the keywords %FOLDER%, %FILENAME%, %EXT% and %APPDIR%.
- *Post-compile command*: a command to execute after compilation. You can use the keywords %FOLDER%, %FILENAME%, %EXT% and %APPDIR%.

General

This category contains just one option at present.

- *Notes*: a place to write notes about this configuration, which will be displayed when you click on the configuration.

Summary

We've looked at configurations in some depth, and you should now know where to look when you wish to change the way Jutoh generates a particular ebook. Next, we look at various strategies to cope with errors that might occur in your book.

Chapter 10: Troubleshooting Your Book

Once you've compiled your book, you need to check it and fix any formatting or other errors that might be present. This chapter explains why you need to do this, what errors are likely to crop up, and how to fix them.

What errors can occur?

If you're lucky, your ebook will be perfect the first time you compile it. In the real world, however, it may contain flaws. These are the seven categories of error or imperfection that we can identify:

- *Syntax errors*: in particular, bad generated XHTML.
- *Structural errors*: for example, bad page links, chapters that are too long for ebook readers to cope with, and missing sections such as table of contents or cover.
- *Formatting errors*: poor or inconsistent formatting.
- *Content errors*: spelling and grammar mistakes, poor writing, factual errors and so on.
- *Platform errors*: formatting or content that is fine on the face of it, but falls foul of a particular publishing platform's guidelines.
- *Import/export errors*: problems with importing existing files into Jutoh, and exporting to other applications.
- *Expectation errors*: when Jutoh isn't designed to do what you're trying to do.

The optional third-party Epub checker can highlight syntax and structural errors, while Jutoh itself checks for some structural errors during book compilation.

Let's deal with each of these categories in turn.

Syntax errors

Let's focus on the Epub format to begin with. When you click on **Compile** in Jutoh, and you have an Epub configuration selected, an Epub file is created that contains a variety of XML and XHTML files.

Jutoh takes great care that the files are well-formed, but occasionally errors may be introduced. For example, you might delete a bookmark needed for a link, or you might enter bad metadata such a date in the wrong format. Or, if you have inserted verbatim XHTML into your book using the special "HTML" style, the error could be badly-formed XHTML syntax such as a missing angled bracket.

This is where Epub checking comes in. You can use the **Check** button in the Control Panel, or the **Book | Check** menu command, or the **F8** key, or the Check toolbar button:



The Check toolbar button

Click it to run the third-party EpubCheck tool (written by Adobe, in the Java language) which is bundled with Jutoh.

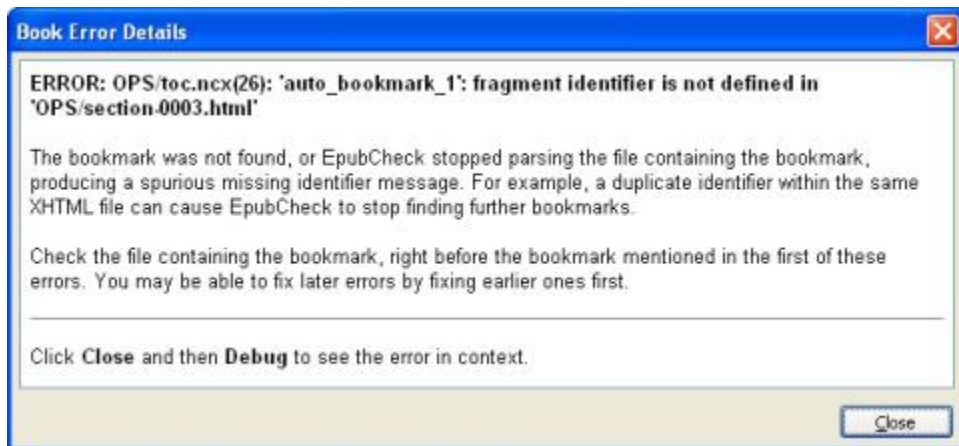
➔ It's recommended that you enable automatic checking after each Epub compile, by going to Preferences, and in the General Preferences page, enable the **Check Epub after compiling** option. This will save you from forgetting to check the file, and will also combine the Epub errors together with errors that Jutoh itself spots.

Assuming Java has been installed, checking will either give a clean bill of health, or will show errors that have been identified in the Epub. These errors are listed in the Error Window at the bottom of Jutoh, the same window that Jutoh will use for general errors that it finds during compilation:



The Error Window

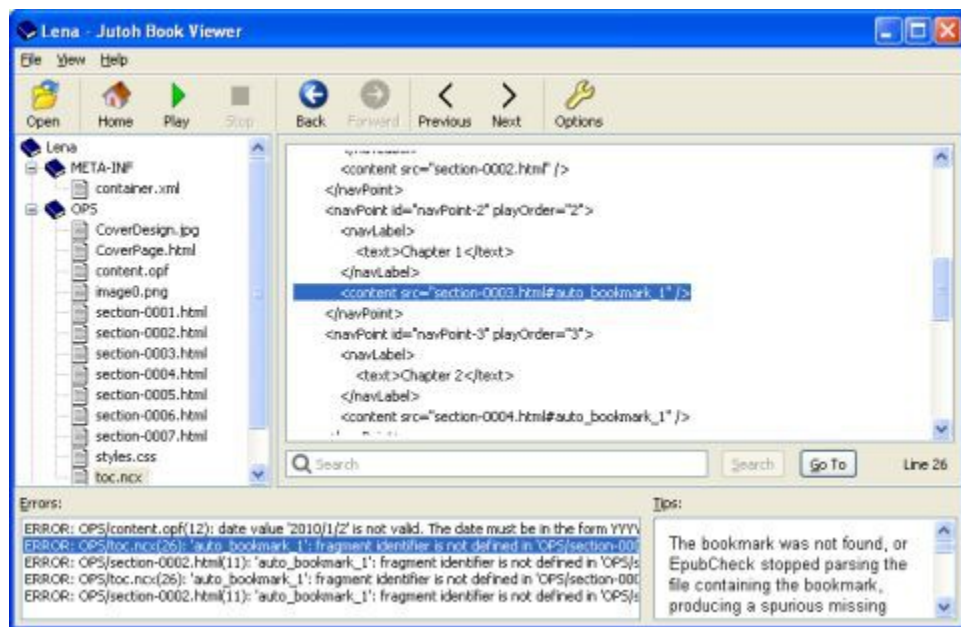
If you click on an error, you can see part of a tip underneath the list. To see more, click on the information button ⓘ next to the message. For example:



The Book Error Details dialog

As you can see, there is an error from EpubCheck, followed by a tip from Jutoh that explains more about how that error has arisen and how you might fix it.

To see exactly where the error is in the Epub file, click on the **Debug** button or double-click on an error message. You'll see the Book Viewer window:



The Jutoh Book Viewer

This is a separate window (but still part of the Jutoh application) that displays the hierarchy of files inside your Epub, with a viewer for the XHTML and other files. The errors and tips are displayed at the bottom, and by clicking on each error, you can see the context of the problem and the relevant tip.

Incidentally, you don't have to have errors in your book to examine your Epub file. At any time, so long as the Epub file exists, you can use the **Book | Examine menu** command (F6) to browse the Epub file. You can also use the **File | Examine Epub** command to examine an arbitrary Epub file that's on your disk, even if it wasn't created by Jutoh.

Now, you can't actually *edit* the XML and XHTML source directly. You need to deduce the source of the error (such as a missing bookmark) and correct it in the Jutoh project, before running another check. The reason for this is that some information is lost when generating the Epub, and it wouldn't be possible for Jutoh to precisely reconstruct that information from the generated and hand-edited XML and XHTML. But you should be able to get used to tracking down problems by examining the Epub files, for the small number of occasions that errors make it into the Epub and weren't identified by earlier Jutoh error messages that lead you directly to the context. If you see errors from both Jutoh and EpubCheck, look at the Jutoh errors first since they show you where in the text they occur; fixing these may also fix the Epub errors.

These are some of the more common errors that can be flagged up by EpubCheck.

- **Bad URL syntax** ('use of non-registered URI schema'). If you find something like `My Page` in the Epub, it means Jutoh couldn't find the referenced page – it might have been deleted. So you can go back to the editor, and fix this link. In fact, Jutoh will also give you its own, more specific error message about this and will allow you to pinpoint the paragraph containing the bad link, so normally you can fix it without reference to the XHTML. Fix the earlier bad link error, and the XHTML problem will go away.
- **Bad date** ('date value ... is not valid'). If you enter a date in the metadata that is not in the correct format, EpubCheck will warn you, giving details of what's allowed.

- **Unfinished element.** This can happen if you miss out important metadata, such as the book title.
- **File name contains non-ascii characters.** Don't put Unicode characters, for example Chinese characters, in an image file name (as specified in the Image Properties dialog).

You can apply Epub checking to Mobipocket configurations, since Jutoh generates Epub-like files before converting them to Mobipocket, but you will need to check *Generate Epub* in your Mobipocket configurations. Note that the generated Epub will initially have the same file name as that generated by your Epub configuration, so to avoid a clash, you may want to change the *Book file name* property in your Mobipocket configuration, to perhaps `%FILENAME%_Mobipocket`.

Note that checking a Mobipocket file can result in a lot of spurious “a” tag (bookmark) errors because Jutoh optimizes the location of bookmarks in Mobipocket configurations in a way that EpubCheck doesn't like. You can ignore these spurious errors. To labour the point, if both Epub and Mobipocket options are enabled within a configuration, then the Epub file generated by this configuration will be Mobipocket-oriented and therefore should only be used for checking purposes, and not delivered to customers.

The chances are high that if your Epub configuration passes the EpubCheck test, then files generated by your Mobipocket configuration will also be good, from a syntactic point of view at least. Also, Jutoh will catch most common errors, and the KindleGen compiler will catch further fatal errors. So you may be content to use EpubCheck for your Epub configuration only.

Structural errors

Structural errors are overall problems with the project, some of which may be flagged by Jutoh at the end of the compile.

Here are some common structural errors.

- **Missing bookmark** (‘fragment identifier is not defined’). The first thing to try is simply regenerating the table of contents if you have used the advanced table of contents mode. Quite often, editing text can disrupt bookmarks, so try pressing F9 to update the table of contents and then compile and check again. So say you find the error is in XHTML containing the text `Chapter 1`, you can look in Chapter 1 and see why the bookmark `auto_bookmark_1` doesn't exist. In this case, regenerating the table of contents will put back this automatically-generated bookmark.
- **Bookmark names change.** If you're using advanced table of contents generation, Jutoh will generate bookmarks such as `auto_bookmark_1`. If you link to a bookmark, and then Jutoh rennumbers it in a later table of contents recreation, your links may be wrong. To avoid this, edit the bookmark and rename it to something without the `auto` prefix. Jutoh will now use this bookmark instead of an automatic bookmark next time it regenerates the table of contents.
- **Missing or displaced cover.** If the cover for your Epub appears as an icon but not within the book, consider clearing the configuration option *Exclude cover from reading order*. The option suppresses the cover from appearing within the book content, to avoid the cover appearing twice, but on some platforms you may wish the cover to appear first instead of the title page. Note that Calibre has an unusual interpretation of exclusion from reading order and shows such sections at the end of the book; again, clearing the *Exclude cover from reading order* option will prevent this from happening. If your cover is still missing, it may be that the *Cover design*

configuration option is not set to the correct cover design name.

- **Missing Table of Contents.** See whether the configuration property *Use guide* is checked in your configuration – if it's not checked, some of the 'Goto' commands in a Kindle book won't work.
- **Section too long.** Jutoh may complain about a section being more than 300Kb in length; this means that some Epub readers will fail to display the book correctly because they can't cope with large sections. You will need to break this section up, perhaps by creating a hierarchy of subsections under one chapter.
- **Unresolved URL.** Jutoh complains about missing page link targets, which might happen if you link to a page that you later delete. When compiling ODT files, will also complain if you have a page link that does not reference a bookmark, since this is required for linear documents such as ODT files that are not composed of individual XHTML sections.
- **Unresolved footnote or index entry.** These errors are flagged by Jutoh after a compile, and usually mean that you forgot to use **Book | Update** to update the endnotes section or index section after adding index entries.
- **Headings used improperly.** This is part-formatting, part-structural – however if you don't apply heading styles in a rational way (for example if you follow a "Heading 1" with a "Heading 4" instead of a "Heading 2") then it will be hard for Jutoh to construct an advanced table of contents and navigation map that reflects the implicit structure of your book.
- **An item in the navigation map doesn't navigate to correct item on Kindle.** Check in Project Properties/Indexes/Table of Contents that the link in question is pointing to a bookmark, and not just the relevant HTML file. Without bookmarks, the navmap can malfunction.
- **An item in the table of contents points to the wrong part of a section.** If there is an image at the beginning of a section, Jutoh may not be able to correctly place an automatic bookmark. Insert a bookmark manually before the image so Jutoh can use that, and rebuild the table of contents.
- **Start page not working.** You can specify the section that the ereader will initially open by setting the guide type to "text" in the relevant section document properties. However, on Kindle, this can sometimes malfunction. If you send a .mobi file via email to your Kindle instead of directly via USB or via your own web site, and sometimes when you download a sample, the start page that you have set may not work. The reasons for this are unclear but it may be that Amazon are converting the file to a lowest-common-denominator format such as KF7, that does not support the "text" guide type. The start page should still work for the full book from the Amazon web site or if you copy the book to the device directly.

Formatting errors

Some formatting problems are merely subjective aesthetic issues, and some will cause actual problems in your book.

I'm going to emphasize one particular issue before I list potential formatting problems, because this is crucial and sometimes hard to get across. The most common formatting mistake is using *ad hoc* styles throughout the document instead of planning ahead and creating styles for particular formatting needs, such as "Centred Picture". *Ad hoc* styling

(applying different attributes such bold, centre, font size and so on directly to your text without selecting a named style) makes it very hard to change formatting throughout your document later, it introduces amateurish-looking inconsistencies in the project, and it generally makes editing the book difficult. So, *please plan ahead* and have a set of named paragraph styles you use for each formatting situation, for example headings, pictures with captions, pictures without captions, emphasized paragraphs, first paragraph after a heading, subsequent paragraphs, book title text, and so on.

Here are some of the issues you might have surrounding formatting.

- **Missing paragraph or character styles.** Jutoh will tell you during book compilation if you have paragraphs or objects that use styles that are not in your style sheet. You might have deleted the original styles from your style sheet, for example, or you may have copied and pasted styles using an earlier version of Jutoh that didn't copy the styles. If named styles are missing, you can choose another style from the drop-down style list in the editor, or you can recreate the style in the style sheet, in Project Properties. If automatic styles are missing, you can normally trigger their recreation by reapplying the styles either to the existing content, or to some dummy content that you subsequently delete.
- **Overuse of *ad hoc*/automatic styles.** Yes, I'm about to repeat the point I made above, in case you missed it! Jutoh won't warn you about this, but if you have used a lot of *ad hoc* formatting either in the file you imported, or within Jutoh, you may find it very hard to get consistent formatting and to change the formatting later. *Ad hoc* styling leads to automatic styles (generated style names containing '+' symbols) which have long names and make it hard to understand and improve document formatting. Create and use named styles whenever possible. In particular, use consistent heading styles that reflect the structure of your document – "Heading 1", "Heading 2" and so on – so that Jutoh can deduce a table of contents. You can use [custom shortcuts and favourites](#) or the Formatting Palette to make this quick and painless.
- **Indentation doesn't work.** Don't use spaces for indents, since they will be ignored; use named paragraph styles with indentation. Apply styles with the drop-down style control on the editor toolbar, or with **Format | Styles**, or via the context menu. For example, use the "Body Text First Indent" style in the style sheet that Jutoh creates. Also, Mobipocket has poor indentation support (no right indent, and fixed indentation size) so it may simply be a [limitation of the format](#).
- **Paragraph spacing doesn't work.** Mobipocket doesn't recognise spacing dimensions of less than 25 tenths of millimetre when the configuration option *Use relative scaling* is checked, so check the numbers in the style dialog, or clear *Use relative scaling* in your Mobipocket configuration. Also, check that the paragraph in question has a named (not automatic) style and then examine its style definition in Project Properties. It may have a base style that is providing some of the attributes, if those properties are not defined in the actual style. Another problem might be that you are using blank lines to space paragraphs out. Don't do that! Use named styles with the appropriate after-paragraph and before-paragraph spacing. Occasional use of blank lines is permitted though, especially on the title page.
- **Unexpected page break in large paragraphs.** Some readers, including the Sony Reader, don't cope elegantly with large paragraphs and break them early, leaving large amounts of space before the end of the page. This is related to 'widows and orphans' handling. You can try a combination of breaking up large paragraphs, and adding this custom CSS to the Jutoh project:
`body { widows:1; orphans:1; }` (all on one line or on multiple lines, it doesn't matter

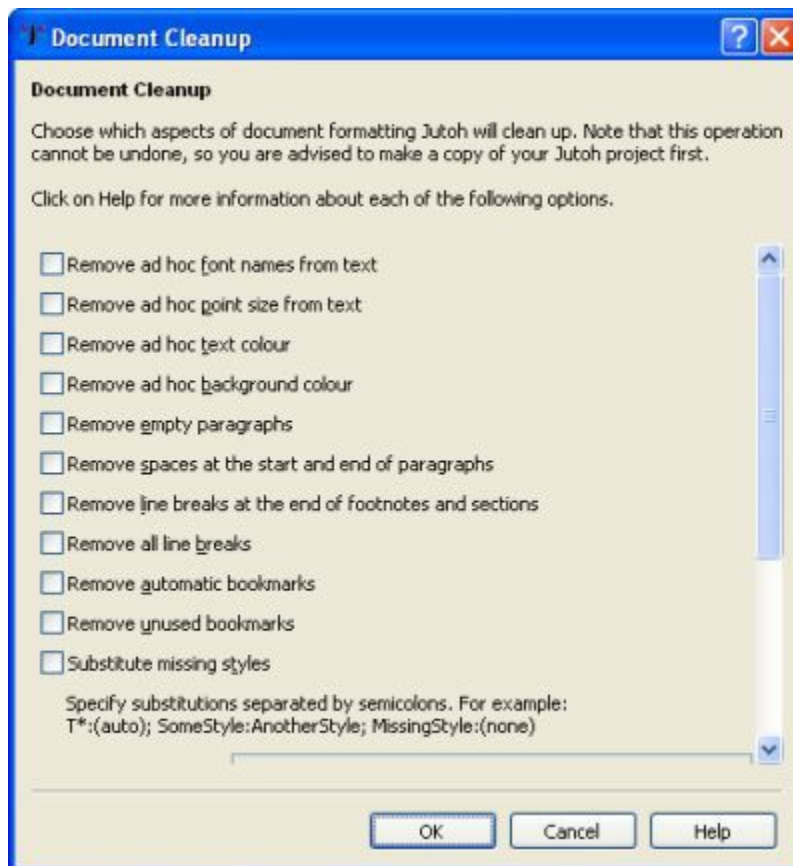
which). See [Chapter 13: Working With Style Sheets](#) (‘CSS customisation’) for how to add custom CSS to the style sheet file that Jutoh generates.

- **Justification problems.** In your paragraph styles, you can define left alignment, right-alignment, full justification, centering, or indeterminate alignment (leave it up to the reading software). Jutoh won’t display full justification in the editor, but it will appear in the ebook. Note that leaving alignment indeterminate may cause justification in some readers (such as Mobipocket) but ragged-left on others (such as Adobe Digital Editions).
- **Paragraphs aren’t centred.** iBooks has a bug (or feature?) that means centring can be ignored. You can fix this by checking *Optimize for iBooks* in your Epub configuration (it generates a span tag for each paragraph that causes centring to work).
- **Multiple paragraphs per list item are all numbered or bulleted.** You can create ‘continuation paragraphs’ by placing the text cursor to the right of a bullet, and pressing Backspace. The bullet will disappear and the paragraph will be a continuation of the previous item.
- **Fonts don’t appear as expected.** Ebook reader software has a limited range of fonts, and if you format your book with fonts that happen to be on your system, don’t expect this to be reflected in your book. Use a small range of fonts instead, such as Times New Roman, Courier New, and Arial or Helvetica. The ebook reader software will usually substitute something appropriate. Although you can embed fonts in your project, not all readers support it and you also need to make sure you have the legal right to distribute the font. If you change a font in Jutoh and then on loading, the font has reverted back to a previous font name, it is probably because Jutoh tries to use fonts that are likely to be present on your platform – so, for example, Helvetica may be changed to Arial when opening the project on Windows. If you want, you can specify a font substitution in your configuration using the *Font substitutions* property in order to use a particular font name in the finished ebook.
- **Garbage characters appear.** Some readers do not cope well with non-Western European languages, or need special consideration. First try setting the **Language** metadata field in Project Properties to the language used in the book, such as “hu” for Hungarian. If that doesn’t work, you may need to consider embedding a Unicode font. See [Embedding Fonts](#) for more information. It’s also worth doing a quick search online for whether the reader software or hardware supports the language you’re writing in.
- **Text size and fonts are inconsistent.** Sometimes you may have hidden text formatting, where spans of text, or whole paragraphs, are formatted with *ad hoc* or named character styles in addition to the named paragraph style. So several paragraphs appear to have the same named style, and yet look different from one another. Often you can solve formatting problems like this by selecting the text and applying **Format | Text | Reset Formatting** to remove all formatting (except links).
- **Paragraphs with the same indent or margin show different dimensions in the ebook.** If the font sizes of the paragraph styles differ, because Jutoh uses relative units (em) to define margins, the same margin or other size can show up differently in the Epub or Mobipocket. Ems are relative to the paragraph style font, even if overridden by a character style. You can solve the problem by either applying a consistent paragraph style or styles with the same underlying font size, or in your Epub configuration, clearing the option *Use relative dimensions* and

recompiling.

- **Invisible text on a black background.** If text disappears when you select white on black in your ebook reader, it means your text colour has been hard-coded to black. You can eliminate all of these occurrences using Document Cleanup (see below).
- **Images are blurry.** If you need most images to be compressed JPEGs, but you need some of them to be uncompressed to eliminate JPEG artefacts (for example, in line drawings or symbols), then insert GIFs from files and change *Convert images to JPEG* to “All except GIF”. Also, blurriness can be caused by scaling up from a small image, especially on a high resolution device such as an iPad. You can improve matters by pasting a higher-resolution image into Jutoh and specifying an absolute or percentage width in the image properties.
- **Images are too large.** Some viewers, such as Nook, Aldiko and ADE, erroneously expand images that have their maximum width or height set (either explicitly per image, or by using the configuration option *Limit images to viewer size*). The fix is to specify the width (and/or height) in pixels or other units in the image properties. For example, if the image is 300x500, specify 300px in the **Width** field.

Jutoh has a way to help clean up project formatting documents – it’s the menu command **Book | Document Cleanup**, which will show you the following dialog:



The Document Cleanup dialog

This will give you the option of removing erroneous spaces, *ad hoc* (automatic-style) font and size styling within spans of text, empty paragraphs, line breaks, and automatically-generated or unused bookmarks. It can also replace missing styles with specified ones, and convert blank lines to proper style-based spacing. Use this feature with caution since it can make a lot of changes to your project – back up your project first.

Another handy way of correcting styles is to use style find and replace, via the **Edit | Find Styles** command. As well as allowing mass replacement of one style with another throughout your project, it will allow you to click on text and see the full name of the character or paragraph style.

You might want to use the Formatting Palette: show or hide it using the **Format | Formatting Palette** command or **Alt+P**. It gives you a list of styles to apply and makes it easy to see just what style has been applied at the current cursor position. It also has a tab listing all the favourite commands, styles and symbols that you have defined. For more on this, see [Chapter 6: Editing and Formatting Content](#).

Content errors

Obviously there is a limit to what Jutoh can do about general content problems (writing style, typos, inaccuracies, and so on). However, there are a few features that can help:

- Use the spelling checker (**Edit | Check Spelling**).
- Print out a ‘linear’ version of your book to make proofreading easier. This is where Jutoh’s ability to write to ODT and (via OpenOffice.org) PDF comes in handy.
- If you own an ebook reader, create an ebook in that format for convenient reading even if it’s not the format you’re actually aiming for. For example, you may be creating an Epub book, but you can create a Mobipocket file for a Kindle reader if you have one.
- Add text notes under the “Scraps” folder to record or plan edits.

Finally, it’s worth remembering that other people will usually be able to spot mistakes in your book much more easily than you can, so enlist the help of further pairs of eyes if you can.

Platform errors

Some publishing platforms have requirements over and above the usual ones, and can be picky about some style and content issues. We’ll look at several of the main platforms.

Smashwords errors

More general information about Smashwords can be found in [Chapter 16: Understanding Ebook Formats and Platforms](#), so here we will confine ourselves to some of the errors that Smashwords might alert you to.

- **Paragraph separation error.** Smashwords doesn’t like you to have both paragraph spacing, and a first-line indent, so you can either modify the style you use, or (if you would like to maintain your current styles for non-Smashwords configurations), add a paragraph substitution in your configuration. For example, in the *Paragraph style substitutions* property for your “Smashwords ODT” configuration, type the string “Body Text First Indent: Body Text” (without quotations, of course). This will cause the Smashwords ODT file (only) to use non-indented paragraphs, assuming you have these styles defined and are using them.
- **Misidentified publisher error.** Check that your title page is as Smashwords wants it, in

particular that you are using the same publisher name as defined in your Smashwords account. For example, “Published by Anthemion at Smashwords”.

- **Copyright page error.** You need to specify a copyright line in your title or copyright page, such as “Copyright Julian Smart 2011”.
- **Can’t create a NavMap (NCX).** Meatgrinder will look either for section headings starting with “Chapter”, or a linked table of contents. You can create an advanced table of contents using Jutoh and Meatgrinder will happily use that for its own table of contents and NavMap.
- **EpubCheck failure.** This may be a genuine error, but sometimes the whole Meatgrinder conversion process fails even when Jutoh is capable of creating perfect Epub files directly. You may have to wait until Smashwords fixes the bug, though you can try removing any complex formatting – lists seem to be a particular problem. Sometimes the bug is with EpubCheck itself. Unfortunately, without an EpubCheck pass, you won’t be able to submit your book to the Premium Catalog, which includes distribution by Sony and Apple.
- **File too large.** There is a Smashwords file limit of 5MB at the time of writing, so if your ebook is too large, consider reducing the quality of your images, or even deleting some. If your images are originally in a format other than JPEG (or were pasted from the clipboard), you can use the *Image quality* setting in your configuration, but if you inserted JPEG images, you will need to replace each image.

iBooks errors

When you submit your Epub for iBooks to the iTunes site, you may find the book is rejected even though the file doesn’t cause problems with other retailers. See also [Chapter 16: Understanding Ebook Formats and Platforms](#).

- **Images break across one or more pages.** Make sure your images never exceed the size of the device display by checking the configuration option *Limit images to viewer size*.
- **EpubCheck failure.** Most errors that cause rejection from iTunes will be identified by running EpubCheck, which you can do by clicking on **Check** within Jutoh.

Lulu errors

- **“Contains unmanifested files” error.** If you check *Optimize for iBooks* in your Epub configuration (the default setting), it includes the file `com.apple.ibooks.display-options.xml` in the folder `META-INF` inside the Epub. So try clearing this setting in your configuration, to remove this file. Also check that `iTunesMetadata.plist` hasn’t been added by iTunes – if so, compile the file again.

Import/export errors

Import errors

You may sometimes get unexpected results when importing into Jutoh. Here are some potential issues.

- **Imperfect styles.** Jutoh does its best to convert CSS (HTML styles) to Jutoh styles, but the two systems are very different and it cannot do a perfect job. So if you import from HTML, you may need to edit the styles, or replace them. Alternatively you can clear the option **Import basic CSS from HTML/Epub**, and have Jutoh use a small number of styles for headings and

paragraphs.

- **Unexpected automatic styles.** When importing from DOCX or ODT, you may be surprised to find a lot of automatic styles in your document where they did not appear to be automatic when edited in your word processor. This is because the word processor may hide the fact you have applied *ad hoc* styling, and show you the ‘base’ style; Jutoh simply shows the automatic style names, and this can reveal an inconsistently formatted document. *Ad hoc* and inconsistent styles can also give rise to frustration when splitting the file in the New Project Wizard and creating an advanced table of contents, because it’s hard to specify how Jutoh will search for headings when they are formatted differently throughout the document. Some of this can be smoothed over by using wildcards (‘*’) to match against variants of a base style, but it’s always better to start with a clean, consistent document.
- **Missing tables.** Since Jutoh 1 doesn’t support tables, these will be omitted. Instead, paste pictures for tables, or use the “HTML” paragraph style to enter the HTML directly. Or use Jutoh 2!
- **Missing images.** If images don’t make it from your DOCX or ODT file, Jutoh may not have been able to handle this particular image type. You will need to paste or insert the images separately. If you are importing from HTML, the images may not have been in the correct path as specified within the HTML. When importing from ODT, also export an HTML file using OpenOffice or LibreOffice, to the same folder that contains the ODT and with the same root name as the original file. For example, *thing.odt* should be exported as *thing.html*. GIF files will be written to the folder, and Jutoh will use these images when importing from ODT.
- **Poor list formatting.** Due to the differences between the way lists are represented in different formats, sometimes lists are less than perfect after import, for example containing erroneous bullet symbols or inconsistent indenting. Try selecting the list and re-applying a list style using the toolbar list buttons or **Format | Bullets and Numbering**. Also, try to ensure that the list items are formatted with a paragraph style with no indent, and delete any blank lines between list items.

Export errors

This is not really about Jutoh errors, so much as things that can go wrong in a chain of conversion starting with Jutoh output.

If you generate an ODT and wish to convert to, say, a Microsoft Word file, you can use OpenOffice.org or LibreOffice (an offshoot of OpenOffice.org) to convert it. However, the results can vary in quality depending on which version of the word processor you use, and what version of Word you choose to export to. If you have a copy of Word, you can experiment with what combination works best. In particular, if there are problems with list bullets, you can adjust the bullet font and Unicode symbol used for each kind of bullet, from the Options page on Jutoh’s Project Properties dialog.

It’s worth checking through a file exported by Jutoh and then converted to a different format before submitting to a distribution site such as Smashwords, to fix any errors such as the above. The majority of ebooks probably won’t encounter them anyway, particularly fiction books.

Expectation errors

While not exactly an error, this class of problem still causes head-scratching and support questions. If

you come to Jutoh (and ebooks in general) with expectations of PDF-like complex layout, you will probably think there's something wrong with the application when it refuses to import this kind of file. Because Epub and Mobipocket files are reflowable, they don't tend to use absolute positioning and complex layouts. Likewise, Jutoh can't import such files with much fidelity. If you have a book with elaborate layout, you will need to think about redesigning it to make use of simpler cues such as small images (such as ➡), indentation, colour, spacing, and pictures laid out simply. As mentioned above, tables can be recreated using pictures, or if you're feeling adventurous, by including HTML code formatted with the "HTML" style (note that Jutoh 2 has table support).

If you want zoomable images or other custom web-like features, this isn't possible in Jutoh and indeed most ebook readers wouldn't support it anyway. (Having said that, Jutoh Plus allows you edit HTML and JavaScript to create interactive ebooks if you have the necessary programming skills.)

It's been my experience that users often want Jutoh to work in the particular way that their own favourite word processor works; customising shortcuts can help a bit there, but Jutoh is a specialist ebook creation tool and inevitably it works slightly differently than other applications. Your expectations, background, and the kind of book you will be creating with Jutoh can lead to quite different experiences with Jutoh but with a little use you should soon find it intuitive.

Third-party troubleshooting tools

We've mentioned the Epub checker, which will give you the assurance that you don't have syntax errors in your books.

For previewing your Epub and Mobipocket files, you can download Adobe Digital Editions and Kindle for PC or Mac. They will become the default viewers when you click on **Launch** in Jutoh.

If you're going to be creating Mobipocket books, another essential tool in your armoury is Kindle Previewer, which you can download for Windows and Mac from Amazon's site. On Windows, you can get Jutoh to download and install Previewer automatically using Jutoh's Setup Wizard available from the **View** menu. Previewer shows your book in an emulator for Kindle devices and also for the Kindle app running on the iPhone and iPad. There can be small differences in the display and navigation behaviour compared with Kindle for PC or Mac, plus you get to see what your book will look like on a much smaller screen, which might influence formatting decisions. You can configure Kindle Previewer as a helper application (see [Appendix B: Configuring Jutoh](#)) so that when you click on Launch you have a choice of Default (Kindle for PC/Mac, if you have installed it) or Kindle Previewer. Don't forget to enclose the full path in quotes, for example `"/Applications/Kindle Previewer.app"`, when adding a new viewer.

You can install Nook and Kobo desktop applications to preview your Epubs though they don't co-operate well with Jutoh and you'll have to open books directly in these tools. In my view they're pigs to use for local files, and are geared towards getting you to part with money for books in their catalogues. So you may be content to use Adobe Digital Editions to preview your work.

If you are distributing your book on Smashwords, the Meatgrinder application that runs when you submit the book may give you some information about the quality of formatting in your book.

Finally, of course, you can get a variety of ebook reader hardware as they're getting ever cheaper, and test your files on these.

- ➡ When using external reader applications alongside Jutoh, such as Kindle for PC, be aware

that if the book is open in that application, Jutoh may not be able to create it again until you quit the book or close the application. Also, you should delete the book from the application's library before launching it again because quite often you can end up looking at the old version of the book and wondering why nothing seems to have changed.

When all else fails

If you just can't figure out what is going wrong with your book, do contact us (see the [Support](#) page for contact details), preferably sending your Jutoh project or a suitable sample and a detailed description of the problem. You never know, it might be a bug in Jutoh; in any case, we want to help you fix your problem if nothing in this chapter has helped. You can also join the *anthemion-writingtools* mailing list and raise the issue there. Don't suffer in silence!

Summary

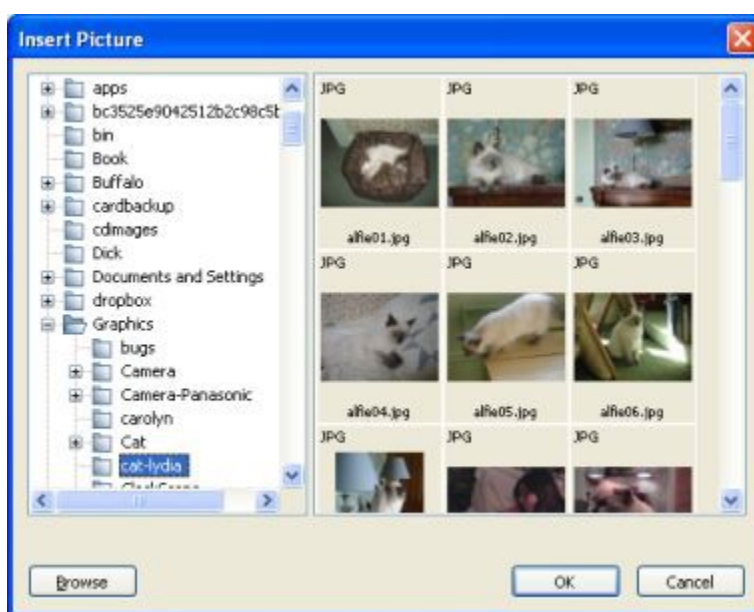
This chapter has armed you with the knowledge and tools to correct errors that you may encounter as you create your books. Next, we go into the details of inserting, sizing and converting the pictures in your book.

Chapter 11: Working With Pictures

In addition to text, Jutoh supports pictures (also referred to as ‘images’ within the Jutoh user interface). Jutoh has a variety of methods to convert and resize pictures; this chapter tells you all you need to know.

Inserting and editing pictures

To show pictures in your book, you can paste them into a page, or choose **Format | Insert | Picture**. Inserting the picture will show a browser that displays thumbnails of all the pictures in a folder.



The picture browser dialog

If the inserted or pasted image width is larger than the one specified in **Resize images to max**, in Import Preferences, the image will be resized before insertion into the project.

You can use these formats in Jutoh:

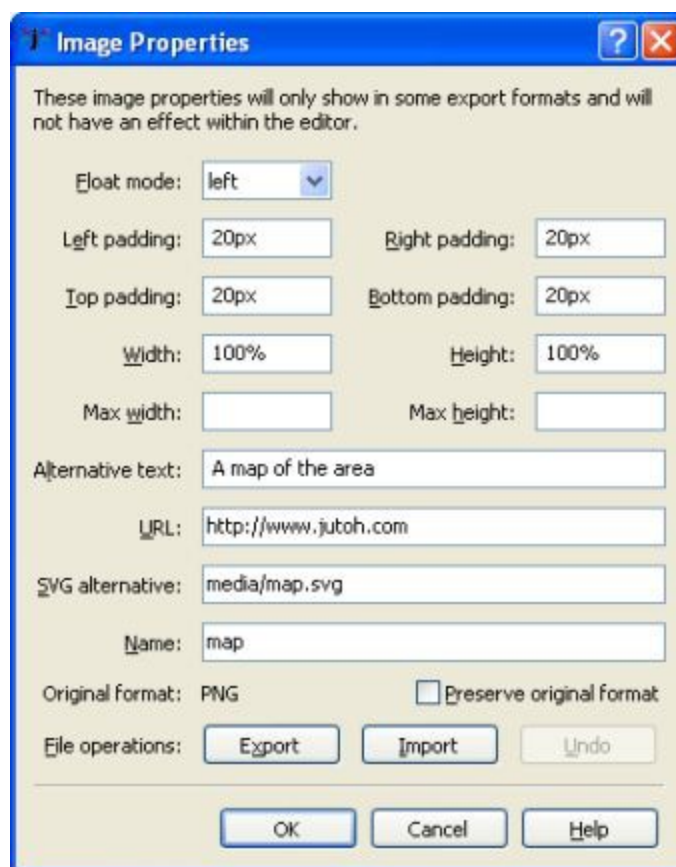
- PNG – good for high-quality artwork that should not be compressed. PNGs tend to take up a bit more space than JPEGs, sometimes a lot more space depending on how the image was saved.
- JPEG – a ‘lossy’ format good for keeping file size down, and best for photographs. Not so good for diagrams or images containing text, since compression artefacts can be visible.
- GIF – an older format similar to PNG. Jutoh cannot flatten this format (remove transparency) except by converting to JPEG.
- TIFF – a popular general-purpose file format that usually produces larger files than JPEG.

Note that by default, Jutoh will convert non-JPEG image files to JPEG – see *Image export to ebooks*

below for more details. In the case of TIFF images, you need Jutoh to convert them to JPEG since Epub and Mobipocket do not support TIFF.

A pasted image will always be inserted as a PNG. If you want to insert an image as a particular type, such as JPEG, you can use **Format | Insert | Picture** to insert it as a file, instead.

An image always takes up a character position in the editor; if you have one image on its own in a paragraph you can apply paragraph formatting to make it left-aligned, right-aligned or centred. If you want text to wrap around it, you cannot show this in the editor. However, you can achieve floating images in your Epub book (not Mobipocket, unfortunately, since it doesn't support wrapping around images) by setting properties for the image – right click over the image (or control-click on Mac) and select Properties. Now you can select float mode (left, right or none), padding for each side, and other properties. You won't be able to see any change in the editor, but Jutoh will apply the changes to your Epub book.



The Image Properties dialog

If setting the float mode to left or right, text that should flow around it should be in the same paragraph as the image. Otherwise there will be extra paragraph spacing around the image.

Image size specified in the individual image properties (as distinct from the resizing done by Jutoh as described below) is respected by some viewers and not others. In particular, early Kindle devices will ignore the specified pixel width and height and will use the original resolution, scaled to fit if necessary, whereas newer versions of Kindle hardware and software take pixel and percentage size

specifications into account. Most Epub viewers recognise pixel, cm and percentage size specification.

Note that separate image documents in your project (created via **Document | Add Image Document** or the toolbar new document command) are not included in your ebooks. These documents are purely to help you organize pictures that might or might not be pasted into the book at some point.

Special considerations for iBooks

A problem that many people find with images in iBooks Epub files is that iBooks ignores width and height specifications in images, and fits images to the page instead. This can be bad because you may wish to include high-resolution images which will look good on high-resolution devices such as retina-display iPads, while keeping the image to a particular size. The workaround for this is to use a parent `div` that takes the image's size, and have the image expand to the size of the parent. From Jutoh 1.57, this optimization is applied when *Optimize for iBooks* is checked in your configuration. An image that is on its own in a paragraph (without any other content), and has its size dimensions specified in its properties, is generated using a `div` that takes the dimensions of the image, and dimensions are removed from the image itself.

So, to support a variety of device resolutions, it's a good idea to specify high-resolution images and specify the desired size (just one of the dimensions will do). Currently this won't work if you have multiple images or other content in a paragraph.

Inserting SVG pictures

The SVG format is used for scalable vector graphics, and in some cases can provide better quality than bitmaps. Not all ebook software and hardware support SVG but it's an increasingly popular format. Jutoh doesn't directly support insertion of SVG files into the editor, but there are two ways of getting SVG pictures into your ebooks.

In both cases, you should add media documents to your project, containing the SVG images. Now you have two options:

1. Insert a reference to the media object with **Format | Insert | Media Object**. Choose the image you previously added as a media document. A placeholder icon is added, and you can click on it to change the properties.
2. Insert a regular image (PNG, JPEG) that duplicates the look of the SVG image. In the image properties, type the name of the SVG image in the field **SVG alternative**, such as `media/mypicture.svg`. Now check the configuration property *Use SVG images* to write SVG images instead of bitmaps. You may need to specify the image width and height in image properties for the SVG to be displayed correctly.

With the second option, you can use configurations to control whether SVG or bitmap images are exported, so this allows you to maintain different configurations for creating ebooks with either SVGs or bitmap images for different sites or devices.

Importing pictures from DOCX, ODT and HTML

You can control some aspects of picture import when they are part of documents imported via the New Project wizard. In the Import Preferences pane in the Preferences dialog, or in the Import Options page in the New Project Wizard, you can choose whether to import images or not, and whether to resize them and to what size.

If you want to specify the image size later, you can clear the **Respect specified image size** option. This will force images to be imported either at the width you specify, or at the maximum resolution they have in the original file. Then you can specify the maximum image width and height in your configurations for later resizing (see *Image export to ebooks* below).

Some types of picture cannot be imported from ODT documents (in particular SVM, the StarView Metafile format). These pictures should be pasted or inserted by hand after import. Or, export an HTML file using OpenOffice or LibreOffice, to the same folder that contains the ODT and with the same root name as the original file. For example, *thing.odt* should be exported as *thing.html*. GIF files will be written to the folder, and Jutoh will use these images when importing from ODT.

Pictures pasted from the clipboard into a DOCX file are stored as Windows Metafiles. These can be imported by Jutoh on Windows, although picture size may be slightly different from the original. On Linux and Mac OS X, metafiles are ignored, so you have several options:

1. perform the document import on a Windows machine and copy the .jutoh file afterwards to your Linux or Mac machine;
2. in your original DOCX file, replace pasted images with images inserted from PNG or JPEG files and then perform the import; or
3. paste or insert the missing images into your Jutoh project.

Image export to ebooks

By default, Jutoh will convert non-JPEG images to the more space-efficient JPEG format. You can switch this off via the *Convert images to JPEG* configuration setting. You can also choose the compression ratio when converting, using the *Image quality* configuration property – the higher the value, the better the quality. 80% is usually a good value.

You can also control the maximum image width and height, using the *Maximum image width* and *Maximum image height* properties. If one or both values are specified, Jutoh will resize each image on export if one or both of its dimensions exceed the specified maximum. In this way, you can easily create multiple books with images optimized for different screen sizes.

An additional option – *Maximum image optimization width* – applies an optimization for images whose width is the same or smaller, by simply doubling the size before rescaling back down. This improves image quality at the expense of longer compile times, so you might like to have a configuration with this set to -1 for ‘preview compiles’ if you have a lot of images.

The above options determine the maximum image size at the time the image is written to the ebook. However, often you will not know in advance what size is best for the device that is being used. Kindle viewers will automatically scale images to fit, but for Epubs, you might like to check *Limit images to viewer size* – this generates CSS that limits the image size to the maximum width or height of the current viewer. This will only work if you have one image on a line, since two images side-by-side will get a combined 200% of the viewer width or height. You can override the maximum width and height on a per-image basis by specifying these values in the image properties dialog. If your image is too big for the device display, it could break across two pages – this can cause the Epub to be rejected by iTunes, so make sure *Limit images to viewer size* is checked if your book contains large images.

If your PNG images contain alpha transparency, by default Jutoh will ‘flatten’ them, that is, remove the transparency and give the images a white background. You can suppress this by clearing the *Flatten*

images configuration option. If you do not flatten images, they may end up as black boxes in your ebook. Note that GIF images cannot be flattened, unless converting to JPEG.

If you find your images look a little blurry (particularly if you're using images for symbols or equations), switch conversion to JPEG off in your configuration(s), or use GIFs and set *Convert images to JPEG* to "All except GIF". Or, you can leave JPEG conversion on, but for selected images such as symbols and diagrams, check the **Preserve original format** option in each image's properties.

If you have multiple instances of the same image in your project, you can indicate to Jutoh which images should only be exported once by choosing a unique name for the **Name** field in the image properties dialog; the first image with a given name will be exported, and subsequent occurrences will use the same image. The name will also be used as the root of the image file name. Don't use non-ASCII characters, such as Chinese characters, for file names or EpubCheck and/or KindleGen will fail.

Exporting images to files

If you need to extract all images from your book, in their original format and size, you can use the **File | Export | Images** command. It will prompt you for a folder that will contain the files. If you need to get hold of the files that have been converted to JPEGs and resized as part of the book compilation process, then you can unzip the Epub file using an archive tool, renaming the extension to zip first if necessary.

Using media objects to insert images

Instead of inserting images directly, you can insert *media documents* and then add media objects that refer to them. For more on this, see [Embedding media](#).

Summary

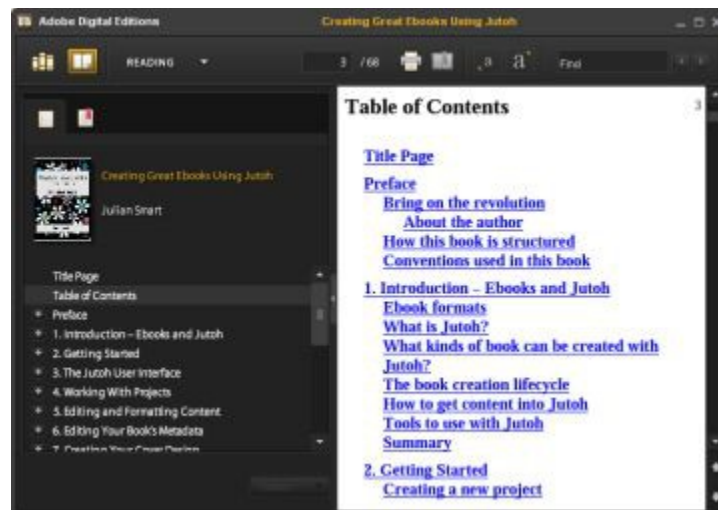
We've seen how to insert pictures and adjust the way they are saved in your compiled ebooks. Next, we look at further refinements for your books, namely getting Jutoh to help create various kinds of index section.

Chapter 12: Working With Indexes

Jutoh can help you with three kinds of index – table of contents, alphabetical index, and endnotes (or footnotes at the end of each section). For a simple book, you don't have to know how to use these, and Jutoh will generate a simple table of contents automatically by default.

Creating an advanced table of content

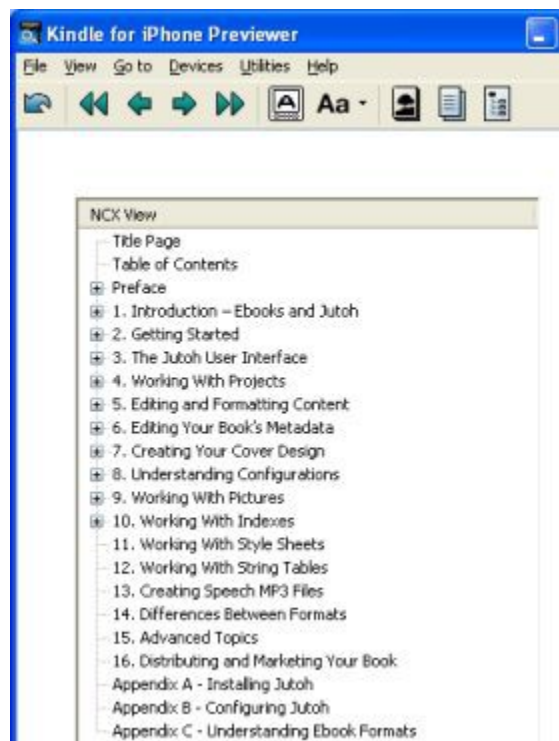
In an Epub 2.0 book, there is always a NavMap (navigation map) which tells your ebook reader to list the sections in your document. Optionally, you can create a page listing the contents of the book – more like the contents you'll see in a book. It's just a regular page with hyperlinks to your book sections. In Jutoh we'll call these 'NavMap' and 'table of contents' respectively. The following screenshot of Adobe Digital Editions illustrates the difference between a NavMap (on the left) and a table of contents (on the right):



Adobe Digital Editions showing a NavMap and table of contents

Ebook readers will present the NavMap in different ways, and some may label it the 'table of contents'. The main point is that in an Epub you *have* to have a NavMap, but a separate table of contents page is optional.

Mobipocket files also have a NavMap, but in Kindle hardware it's not actually shown. On Kindle for PC and Mac, you can show the NavMap using **Show Document Navigation**, and on Kindle Previewer this is available via **NCX View**, as follows:



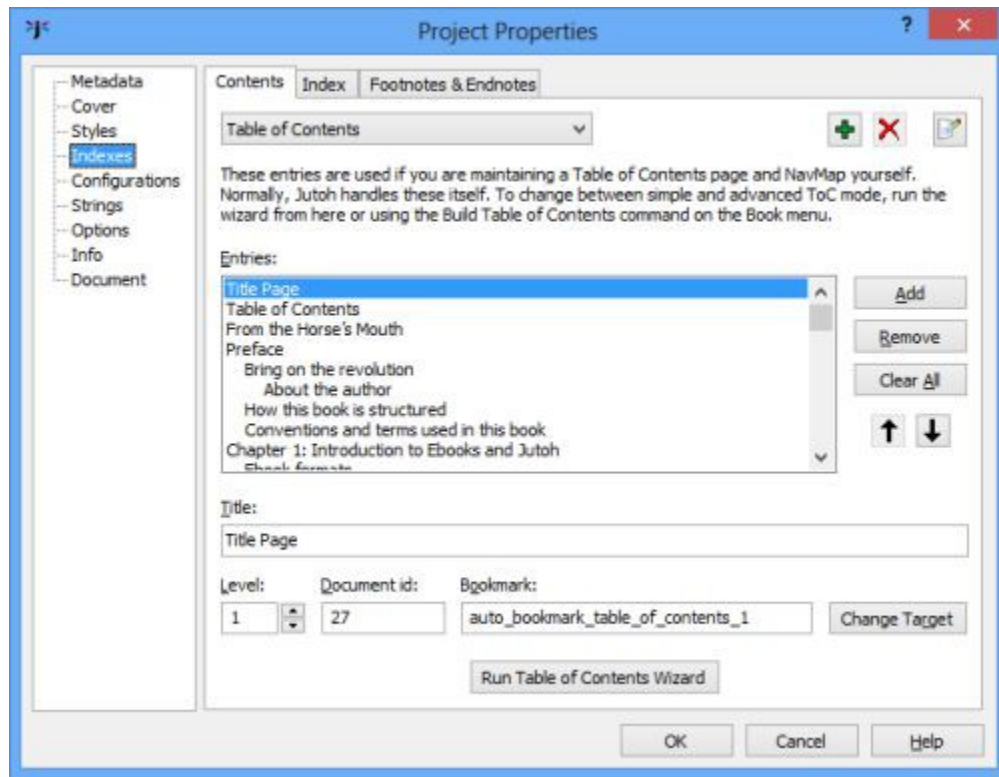
Kindle Previewer showing the NCX View (NavMap)

When creating an Epub file, Jutoh always creates a NavMap (by default, from the titles of your book sections). Jutoh can also create a basic table of contents page simply by checking the *Generate table of contents* property in the current configuration (Project Properties/Configurations). The extra page will appear in your book, but will not be visible in your Jutoh project.

Jutoh supports an additional, advanced method of building a NavMap and table of contents. In this mode, you maintain an explicit list of contents entries, with help from Jutoh. The entries appear in the Contents page of the Project Properties dialog (under Indexes/Contents), and are also editable in the Table of Contents Wizard. Use this wizard (with the command **Book | Build Table of Contents**) to switch to advanced mode and specify how contents entries will be gathered from headings in your documents.

Why would you want to use this advanced method instead of the default table of contents generated by Jutoh? Well, you get more control of styling and of which entries will appear in the contents, and you can generate a table of contents that's several levels deep (the default method only gives you one level). So for most projects it's worth the extra effort.

Here's how the contents entries appear in Project Properties, after running the Table of Contents Wizard at least once:



The Table of Contents page of the Project Properties dialog

Let's have a look at the Table of Contents Wizard, invoked by pressing **Run Table of Contents Wizard** in the Project Properties dialog or from **Book | Build Table of Contents**. Here's the first page:

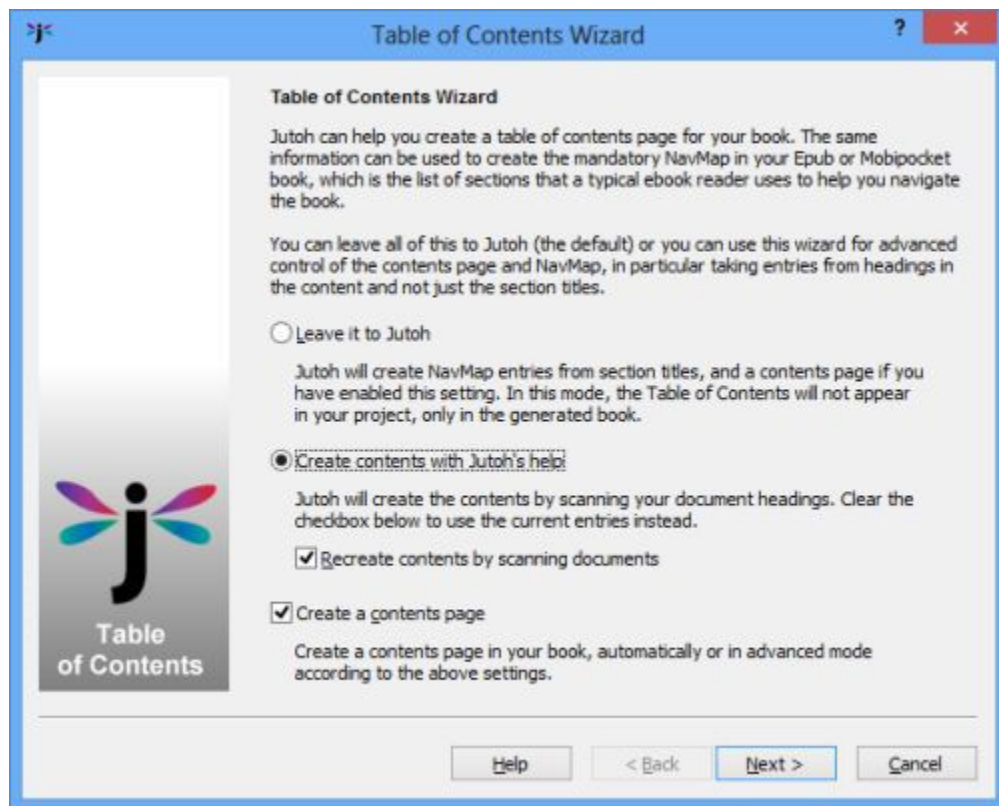


Table of Contents Wizard: first page

To create an advanced table of contents with both a NavMap and a separate table of contents page, check **Create contents with Jutoh's help**, and also **Recreate contents by scanning documents**, and **Create a contents page**. In the next wizard page, we specify the settings that Jutoh will use when finding headings in the document.

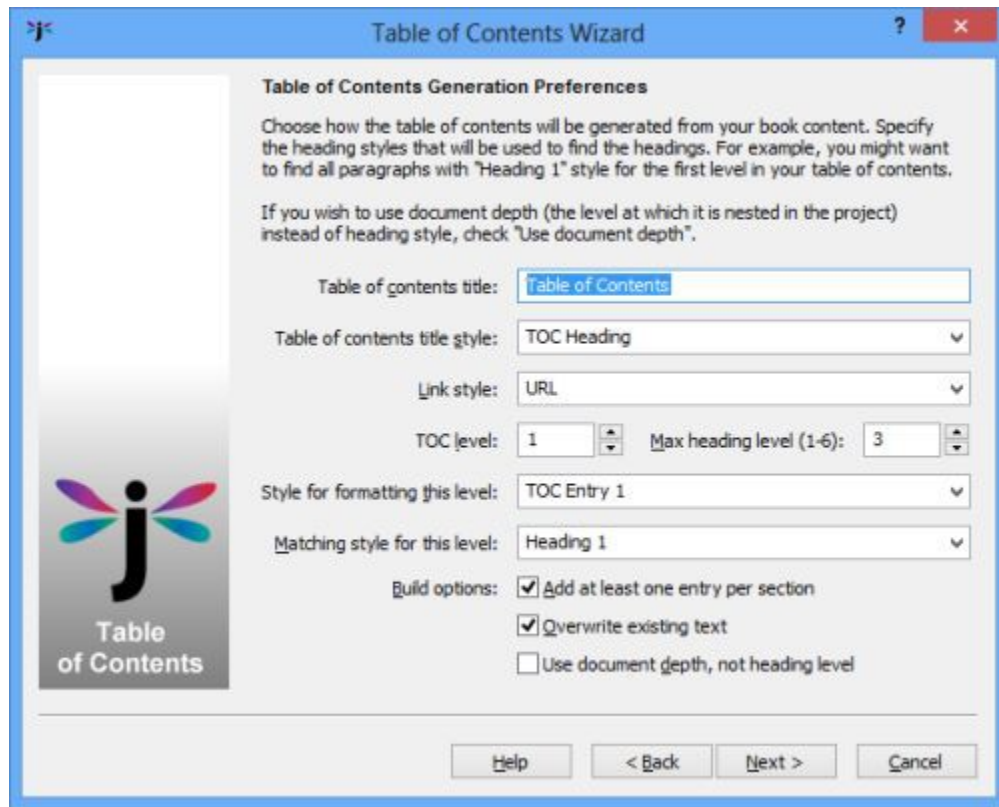


Table of Contents Wizard: generation preferences page

Let's explain the options presented here.

Table of contents title specifies the text of the title that will be inserted in the table of contents.

Table of contents title style lets you choose the paragraph style that will be used to format the table of contents title.

Link style specifies the character style that will be used to format the linked entries in the table.

Max heading level lets you choose the maximum number of levels that will appear in the NavMap and table of contents.

If you check **Overwrite existing text** (the default), the whole table of contents page will be replaced when regenerating it. Usually this is what you want, but you might want to clear this option if you have entered extra text that you want to keep and you want to manually edit out the old entries later.

Add at least one entry per section determines whether Jutoh will add an entry for a section even if it didn't match any headings. Usually it's best to keep this option checked.

Use document depth, not level can be checked if you want to bypass matching headings, and instead generate one link per section and use the hierarchy of your project to determine how the NavMap and table of contents is built. You can create or move book section documents under other ones to create a hierarchy; if you are not using **Use document depth**, an actual hierarchy isn't necessary since headings give an implicit hierarchy, but it's an option that you have.

TOC level shows the current level we're editing, affecting the next two fields. There will be as many

levels available here as we specified in **Max heading level**.

Style for formatting this level is the paragraph style that will be applied to the entry at this level (depth) of the contents page.

Finally, **Matching heading style for this level** tells Jutoh that when this style matches within the project, we will treat this paragraph as a heading at this level. You can match against multiple styles by specifying asterisk (“*”) for ‘match multiple letters’, and you can specify multiple patterns by separating them with the pipe character (“|”).

In the example, we’re allowing Jutoh to look at three headings levels, and for the first level, we’re going to search for the “Heading 1” style and format each table of contents entry with “TOC Entry 1”. Click on the **TOC level** control to change the level number and specify the heading styles that will be used for the other two levels.

When you click on **Next**, Jutoh will build the table of contents and show the results in the next page, for you to edit or accept as-is:

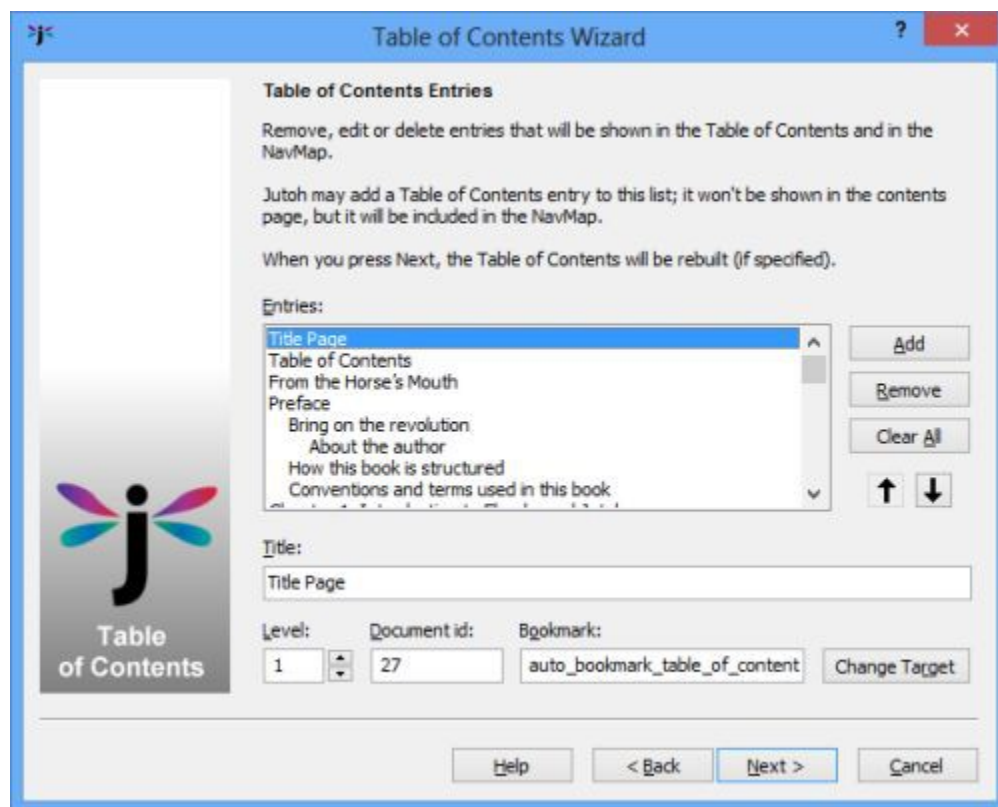


Table of Contents Wizard: entries page

If you find that Jutoh hasn’t found the headings you thought it would, click **Back**, edit the options, and try again. You might need cancel the wizard and apply styles to your content, for example if you don’t have consistent heading styles. You also need to make sure that Jutoh will find headings without skipping levels; Jutoh will complain if there are such jumps. For example, going from level 1 to level 3 is not allowed, although you don’t have to ‘unwind’ the headings similarly; you can happily jump from level 3 back to level 1. It probably indicates a problem with your document if you have, say, a

“Heading 1” followed by a “Heading 3”. While this may achieve the look you want, you also need to think about a proper structure for your document.

When you click **Next**, the final page will be shown with an option to automatically build the table of contents whenever generating the Epub or Mobipocket – you can leave it unchecked if you can remember to use **Update** whenever a heading has changed in your project.

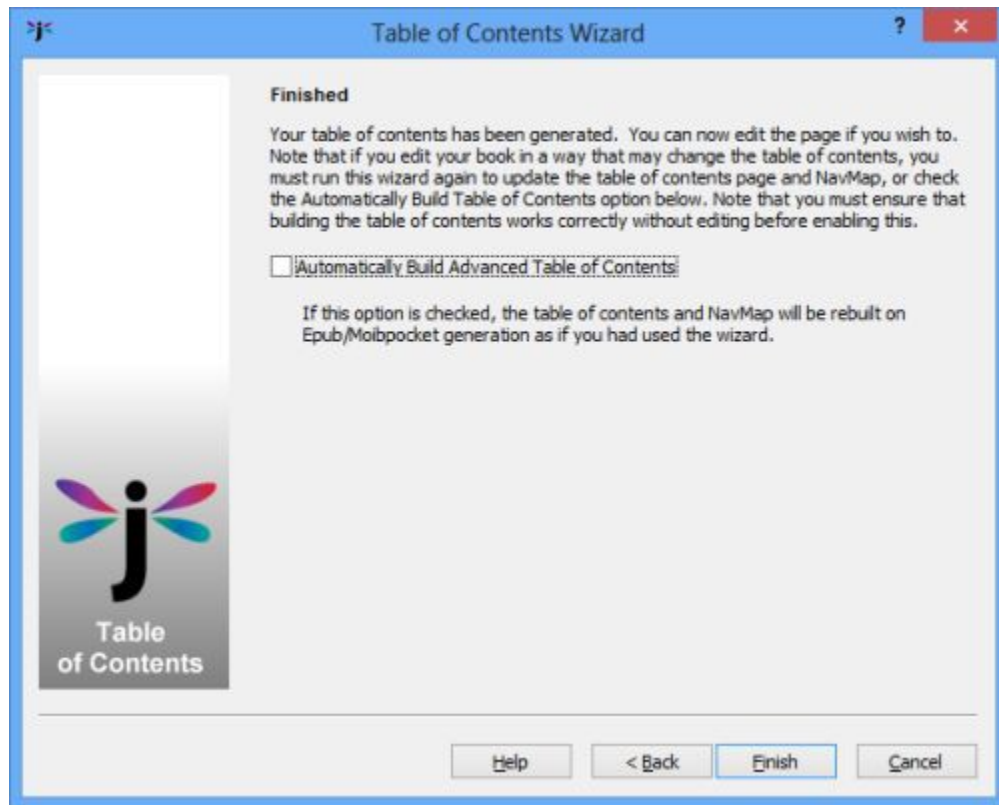


Table of Contents Wizard: final page

Click on **Finish** to quit the table of contents wizard.

Note that to make best use of the advanced table of contents facility, you need to use consistent heading styles in your document, so Jutoh can work out the heading levels (in the structure implicit in your document) and add bookmarks to them. For example, you might use “Heading 1”, “Heading 2”, “Heading 3” and so on.

If you haven’t opted to add a table of contents page, Jutoh will still use the found entries to create the NavMap. To revert to ‘simple mode’ again, run the wizard and the entries will be deleted, telling Jutoh to generate a basic contents page (if specified).

If an explicit table of contents page is found in the project (by searching for the title “Table of Contents” or by finding a document whose Guide Type is set to “toc” in its document properties) then Jutoh will suppress the basic contents page to avoid duplication.

Note that if you are using basic contents creation, the entries are formatted with “TOC Entry 1” (if available) and the contents heading is formatted in “TOC Heading” (if available).

Specifying and stripping link styling

Links from the contents page will be formatted using the character style specified by Link style in the Table of Contents Wizard Preferences page. By default, this is the style called “URL”, that Jutoh adds to your style sheet by default. This makes the links look good in Jutoh, but if your book reader uses different colours for links by default, you may have a colour clash. So, you can have Jutoh strip out the URL styling when generating the ebooks by specifying the value of *URL attribute removal style* in your configuration. It’ll only strip out attributes that are the same in the style to you specify in the configuration, and the actual link, which means you can have specific colours and other attributes in your content without them also being removed. The same logic applies to indexes and footnotes.

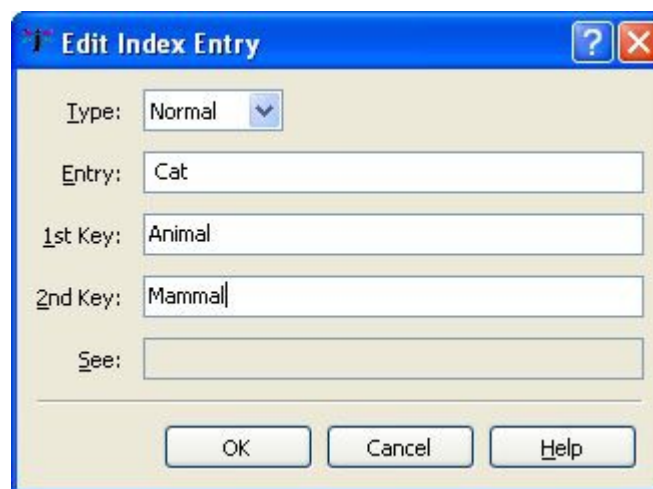
Creating a table of contents manually

If Jutoh’s automatic contents-building facility isn’t for you, you can construct the NavMap and table of contents page manually. Build your NavMap in Project Preferences under Indexes/Contents, by creating individual entries and linking them to bookmarks (or overall sections). Now you have a choice of how to create the table of contents page. You can run the Table of Contents Wizard, clearing **Recreate contents by scanning documents** so it only regenerates the contents page without scanning headings and recreating the NavMap. Or, you can create the table of contents page entirely by hand by adding a section, giving it a Guide Type of “toc” (see the document properties, available from the project outline context menu, or **Document | Document Properties**) and adding links. This is laborious, so it’s likely that you’ll want to use one of the automatic or semi-automatic methods.

Creating an alphabetical index

Jutoh can create an alphabetical index if you insert index entries throughout your book. The items in the index are linked to the appropriate position in the book.

Insert index entries by selecting some text for the entry and using the **Format | Insert | Index Entry** menu command. Or, you can leave the text unselected and type the entry in the Index Entry dialog.



Index Entry dialog

When you press **OK**, the index entry will be inserted and shown as this symbol:

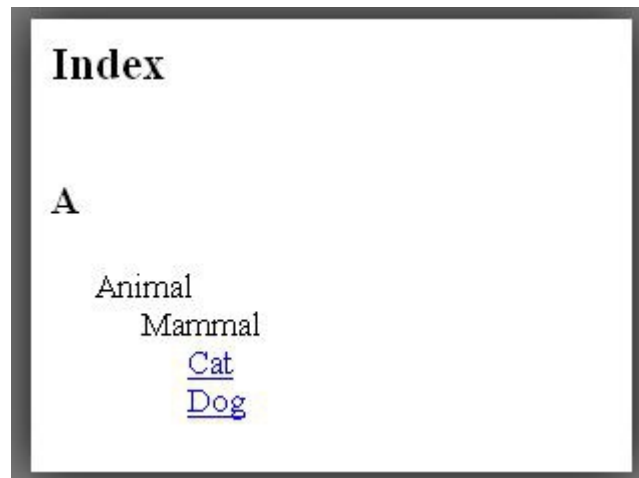


To edit the entry, simply click on the symbol.

You can create a multi-level index by filling in the **Key 1** and **Key 2** fields. These represent a category and a sub-category, and will be written with suitable indentation in the index section. For example, if you fill in the **Entry**, **Key 1** and **Key 2** fields with “Cat”, “Animal” and “Mammal” respectively, you would get Animal, Mammal, Cat in the index. The **Entry** field is always the final (most specific) item.

The index section is not created until you instruct Jutoh to do so, via the Index Properties page, or the **Book | Update** command.

In the following screen shot, two index entries have been added: Cat and Dog, each with Animal and Mammal keys. The items are linked back to their original position in the document; if there are multiple locations for the same index entry, linked numbers are shown instead following each entry.

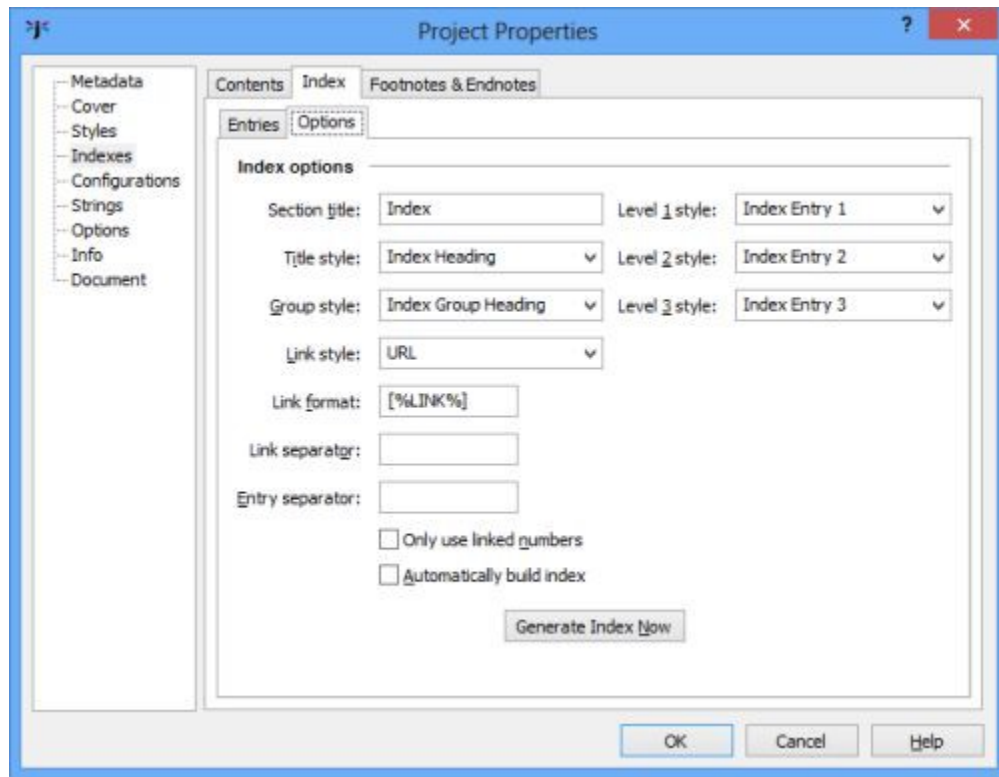


Two index entries

If you need to add a ‘see’ or ‘see also’ entry, you can choose one of these options from the **Type** dropdown control, and then type text into the **See** entry. It will be placed by the relevant entry in the index, according to the entry and key fields. This kind of index entry doesn’t have to live anywhere in particular but is easy to lose, so consider inserting all ‘see’ and ‘see also’ entries into the same page.

Configuration

You can edit various aspects of index presentation in the Index Properties page. Click on **Edit** on the toolbar or **Book | Project Properties**, or type **Alt+Enter**, then click on Indexes, then Index, and finally on the Options tab.



Index options

Settings include the title of the section and how items are to be formatted. Using the **Link format** field, you can choose whether items will be bracketed. You can customise separators between the entry text and the link, and between links. With the **Only use linked numbers** option, you can determine whether an item with a single link will have clickable entry text (off), or a more consistent look using a single linked number (on).

You can specify that the index should be recreated every time the book is compiled (check **Automatically build index**) so you don't have to remember to rebuild the index after editing.

You can edit the index itself in the Entries tab: you can change the text of items, remove them, and reorder them. These edits will only be retained if you answer **No** after clicking the **Generate Index Now** button. If you update the index from the Update Special Book Sections dialog, the index will be rebuilt from scratch from the entries in the book content, losing any edits in the Entries tab.

Importing index entries

Index entries are imported from ODT and DOCX documents. However, no special formatting (such as italics) can be applied to parts of entries or keys – they are simple text strings all formatted with the same style.

Creating footnotes and endnotes

A Jutoh book can have either footnotes at the end of each chapter (the default), or a separate endnotes section. Footnotes are always automatically created when the book is compiled, but the endnotes section must be explicitly updated or told to update itself automatically before each compilation.

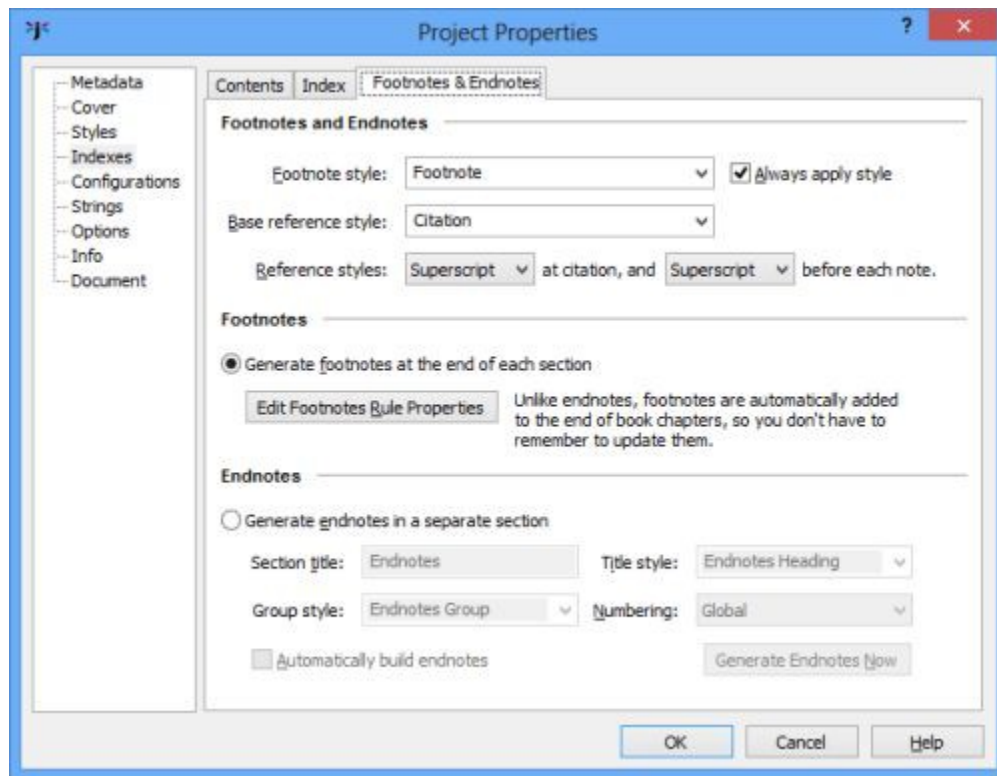
You can insert footnotes or endnotes using the **Format | Insert | Footnote** menu command. Type the

note text in the editor dialog, press **OK**, and a note symbol will appear in the text. To edit the note, just click on the symbol. You may wish to resize the editor to see more items on the toolbar. Since you cannot use menubar commands from the footnote editor dialog, you can instead use the context (popup) menu to format text – this is shown with right-click on Windows and Linux, or control-click on Mac.

Note that currently, Jutoh applies the “Footnote” style to all footnotes when appended to a section or collated in the Endnotes section. Therefore it doesn’t matter what paragraph style the footnote is formatted with. This may change in future Jutoh releases.

Configuration

You can configure the way footnotes and endnotes are presented via the Footnotes and Endnotes page in Project Properties. Click on **Edit** on the toolbar or **Book | Project Properties**, or type **Alt+Enter**, then click on Indexes and finally on Footnotes and Endnotes.



Footnote and endnotes options

In the footnotes and endnotes properties page, you can choose whether the citations will be represented by superscript numbers or numbers in square brackets.

You can influence how the citation numbers are styled by changing the **Base reference style** (by default, “Citation”), or editing the “Citation” style definition in the style sheet editor. By default, the “Citation” style applies no extra formatting.

Footnotes

In footnotes mode (the default), your footnotes will not show within Jutoh (unless edited), but if there are any footnotes in a chapter, they will be appended to the chapter when the book is compiled, after a

horizontal rule (divider). Footnotes are always added, so if you were to import footnotes from an ODT file and then compile it without altering any settings, they will show up.

For Epub books, you can change the horizontal rule properties from the Footnotes and Endnotes properties page. For example, you can set it to be coloured red and occupy 30% of the page width. For ODT files, Jutoh will insert an image reflecting some of the configured properties.

Endnotes

If you switch to endnotes mode, you need to use the **Book | Update** menu command to create the endnotes, or create the section from the Footnotes and Endnotes properties page. From this page, you can choose to always rebuild the endnotes page by checking **Automatically build endnotes**.

In the properties page, you can choose the endnotes title and styles for the title, per-chapter heading, and whether the numbering will be global (continuous numbering) or whether it should restart for each chapter.

Normally, whether the numbering is global or starts again for each chapter, the chapter headings will be shown. You can suppress chapter headings by leaving the **Group style** blank.

Importing footnotes

Footnotes are imported from ODT files, but not from HTML files since there is no representation for footnotes in HTML and it's impossible to distinguish them from regular linked text. So if importing from HTML, you will need to copy the footnote text into new Jutoh footnotes.

Summary

We've seen how to build special index sections in Jutoh. We've mentioned styles and style sheets from time to time throughout this guide; now we'll devote a chapter to them as styles are important in Jutoh.

Chapter 13: Working With Style Sheets

In this chapter we explain how to work with styles – important for formatting your books consistently, and also important for such features as automated table of contents creation.

Introduction

Style sheets are important in controlling the appearance of a book when converted to the supported formats. Style sheets contain styles for paragraphs (paragraph styles), spans of text (character styles), and lists (list styles). You can have more than one style sheet, and switch between them by changing the *Style sheet* property in a configuration, or by having multiple configurations specifying different style sheets. Most users will probably stick with one style sheet.

If your document appearance isn't as you wish, instead of editing the formatting within the editor, first try editing the style sheet, since this will affect the whole document if named styles have been applied consistently. For example, suppose that the first paragraph in each section uses the style “Body Text”, which is not indented. You may wish the first paragraph of each section to be indented; so you could either change the style for each such paragraph, or you could adjust the definition for “Body Text” to match the indentation of “Body Text First Indent”.

For Epub and Mobipocket formats, Jutoh generates a Cascading Style Sheet (CSS) that contains HTML equivalent definitions for the Jutoh style sheets.

Kinds of style

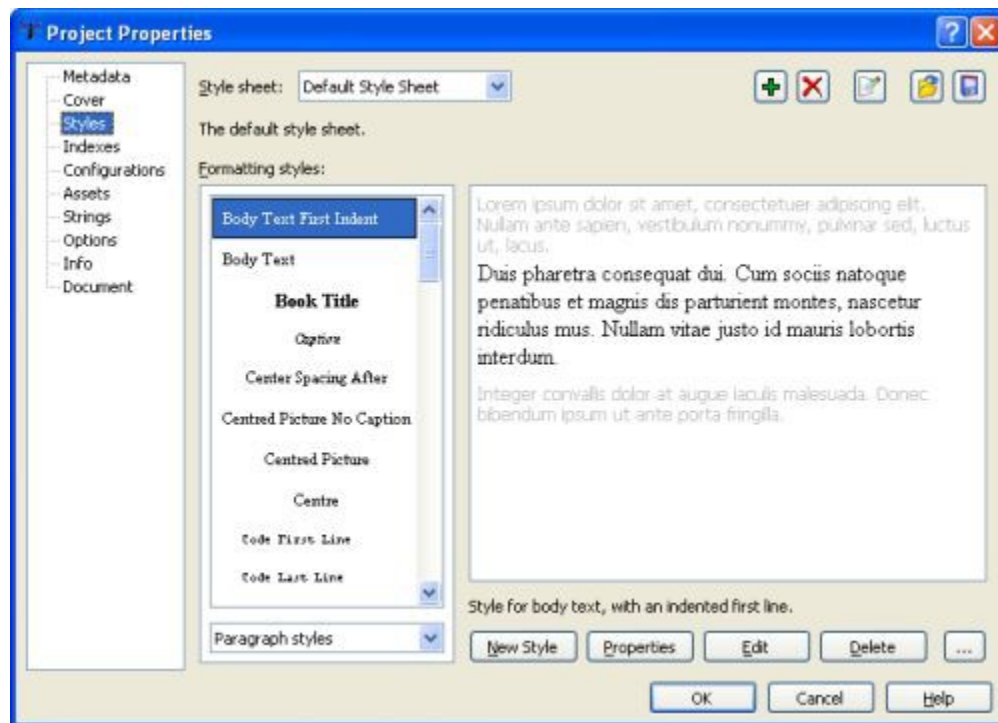
Jutoh supports three kinds of named style:

- *Paragraph style*. This kind of style applies to an individual paragraph, and you can see available paragraph styles in the drop-down control above the editor.
- *Character style*. This kind of style changes the formatting for a span of text within a paragraph. You can apply character styles using the context (right-click) menu, choosing **Styles** and then **Character Styles**. There's no drop-down control for character styles, but to see the named style at the current text position, you can use the **Edit | Find Styles** command to show the Find Styles dialog, and navigate through the text. Any named style will be shown in the dialog.
- *List style*. This kind of style defines how list items are formatted at each depth; the two list buttons on the formatting toolbar simply apply two of the standard list styles (bulleted and numbered).

There is always a named paragraph style for any given paragraph, but a given span of text may not necessarily have any named character style. If more than one named style applies to text, their attributes are combined, in the order paragraph, list, and character (with each style overriding the previous). You can remove the character style from a span of text and choosing **Format | Text | Reset Text Formatting**.

Editing style sheets

You edit style sheets in the Project Properties dialog, as shown here:



The Styles page in the Project Properties dialog

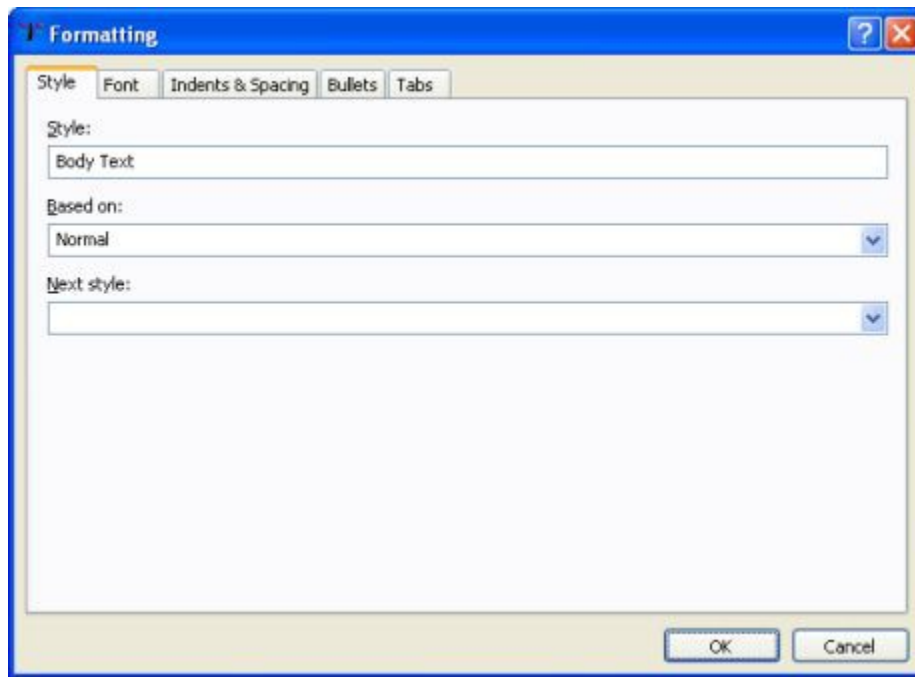
A default style sheet is provided, including these paragraph styles: “Normal”, “Body Text”, “Body Text First Indent”, “Heading 1”, “Heading 2”, “Heading 3”, “Heading 4”, “Comment” (stripped out of all generated books), “Headers”, “Footers”, “HTML” (output verbatim to HTML-based formats), “Centre”, and “Right”.

You can edit the attributes (visual characteristics such as indent or font) of all styles, and add your own. Be careful when deleting styles, though, since your book may not work correctly if styles that it uses are missing (Jutoh will warn you about this, and you can then add them back or replace the styles in the offending paragraphs.)

By default, the dialog shows the paragraph styles. You can view the character styles, list styles, or all styles at once by using the drop-down control under the style list.

Editing paragraph styles

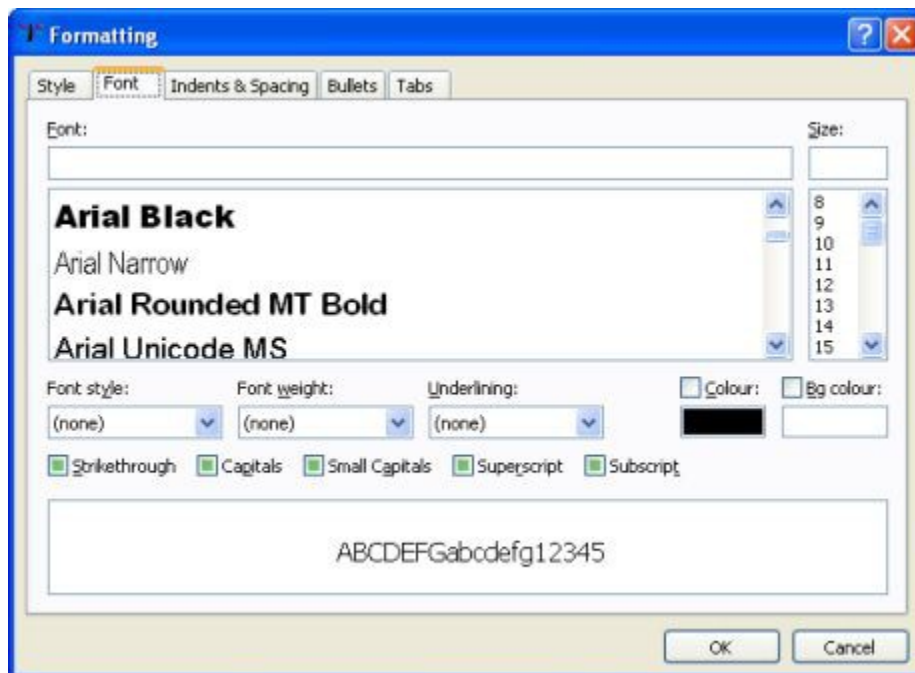
To edit the attributes of a selected style, click on **Edit**. The style dialog will be shown; for paragraphs, it will look like this.



Paragraph style dialog: Style page

The Style page shows the name of the style, the ‘base’ (or parent) style from which the style inherits, and an optional ‘next style’ that indicates what style will be set when you press return on a style of this kind. For example, a heading style might have a next style of “Body Text” so you don’t have to change the style manually back to “Body Text” after writing a heading.

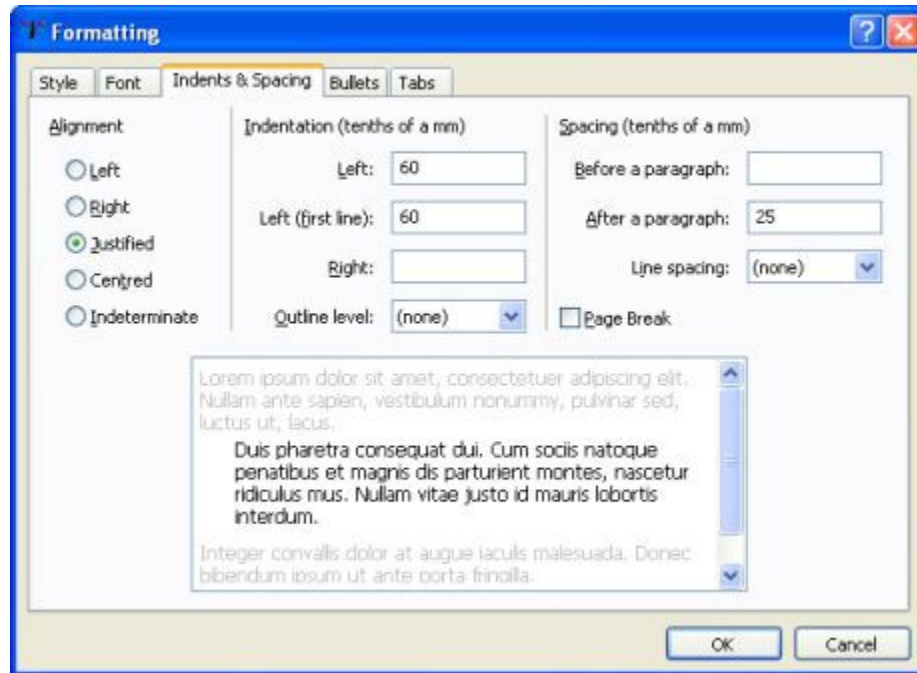
The Font page lets you adjust font-related attributes that will apply to the whole paragraph.



Paragraph style dialog: Font page

In the example above, no font attributes are actually set, but the style will inherit any attributes from the parent style. A paragraph style or at least its parent needs to have the size set (12 means ‘normal text size’) and also the font name, which should usually be kept to something simple such as Times New Roman, Arial (or Helvetica), or Courier New.

The next page is Indents & Spacing, which deals with indentation, line and paragraph spacing, and also text alignment, whether a page break will be inserted in front of the paragraph, and the outline level (an optional indication of heading depth – you can ignore this).



Paragraph style dialog: Indents & Spacing

The alignment buttons determine whether the paragraph will be left-justified only, right-justified, justified (straight on both sides), centred, or indeterminate (no alignment specified unless inherited from a base style). Note that if you specify justified text, Jutoh won't show it in the editor but it will usually be respected by the ebook reader software.

Indentation and paragraph spacing values are specified in tenths of a millimetre, which will be converted either to relative ‘em’ units, or to mm, when written to HTML, Epub or Mobipocket formats (see below for details of the conversion). You can specify both the left indent and first line left indent, and also the indent for the right-hand-side. In Mobipocket format, the right indent is ignored, and a left indent will be shown using a single, standard indent size (except for the first-line indent, which can be customised).

You can specify the before-paragraph and after-paragraph spacing. For normal text paragraphs, you'll probably specify at most an after-paragraph value. For headings, it's likely you'll specify spacing before and after the paragraph. If you leave these values empty, they will either inherit values from the base style, or will effectively be zero.

It's worth remembering that when the configuration option *Use relative dimensions* is checked, Mobipocket ignores spacing values that are less than 25 tenths of a mm.

Line spacing – the spacing between lines within a paragraph, not between paragraphs – is specified as ‘none’ (takes a default or inherited value), single spacing, or in 0.1 increments up to 2 times the normal line spacing.

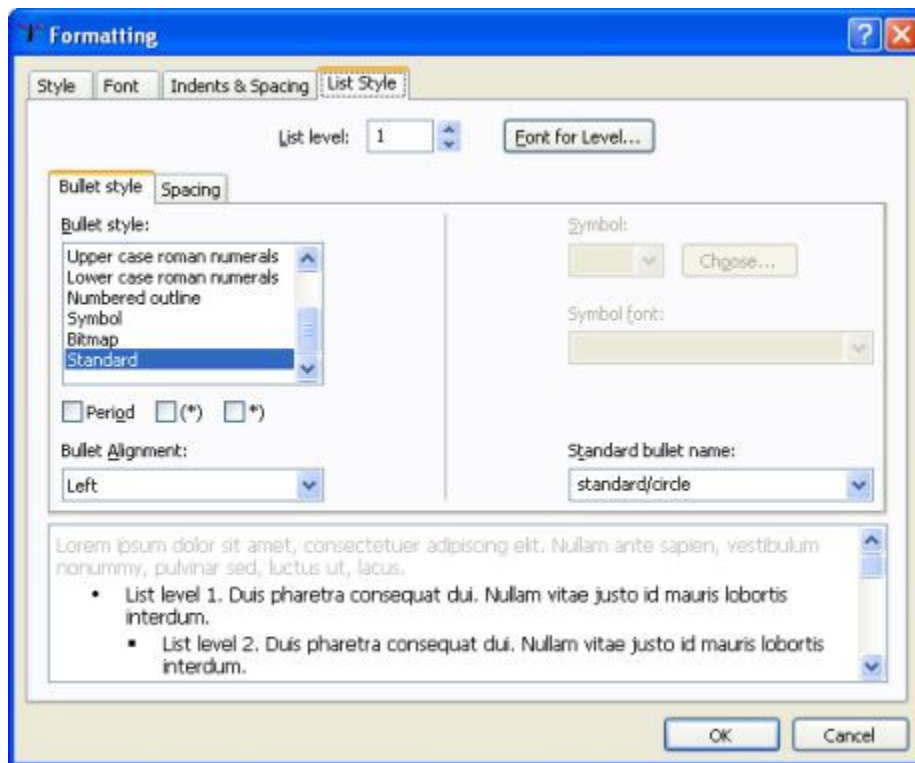
You can ignore the Bullets and Tabs pages as far as ordinary paragraphs are concerned, since bullets are only defined as part of a list style, and tabs are not supported in Jutoh (or most ebook formats).

Editing character styles

To edit a character style, first view all character styles by selecting “Character styles” in the drop-down box under the style list, then select a style, and click **Edit**. The character style editor has a Style page, similar to the paragraph style editor but without the **Next style** field, and a Font page. No other attributes apply to character styles.

Editing list styles

To edit a list style, first view all list styles by selecting “List styles” in the drop-down box under the style list, then select a style, and click **Edit**. The list style editor has Style, Font, Indents & Spacing, and List Style pages.



List Style page

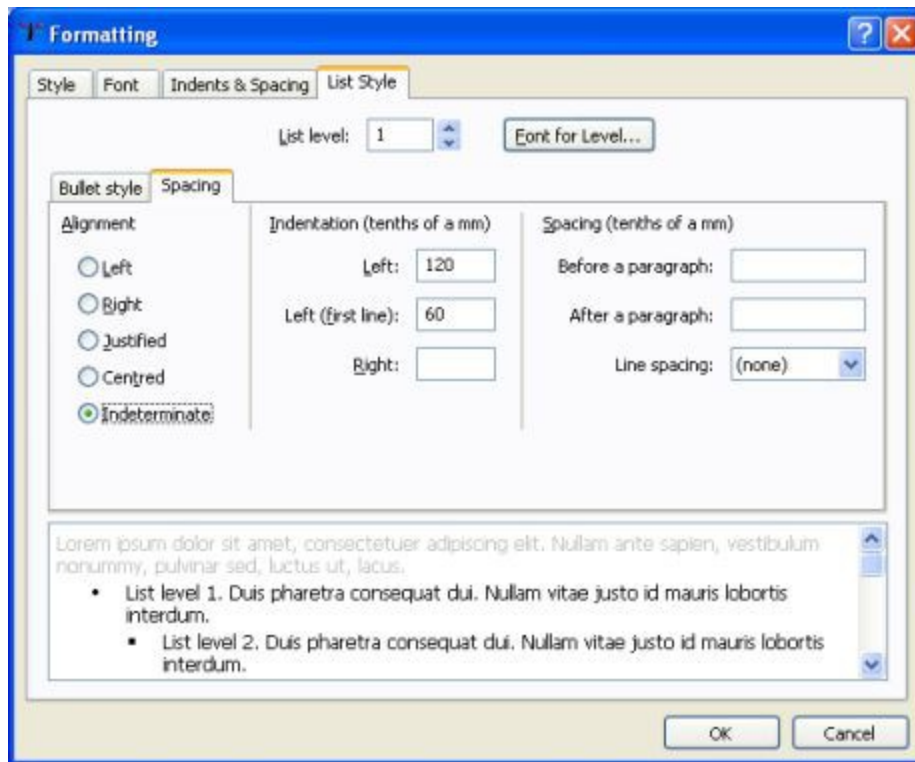
List styles work on the principle that lists can potentially be nested, with different bullet or numbering styles depending on the level (depth) of the list. When you are editing an actual list in the Jutoh editor, pressing the **Tab** or **Shift+Tab** keys will increase or decrease the level of the current paragraph in the list.

On the List Style page, click on **List level** to edit a different level (up to 10), and then adjust the

attributes to be shown for that level. The attributes listed on the Spacing sub-page will be merged with the attributes on the Indents & Spacing page.

Various bullet styles can be defined, but it's best to keep it as simple as possible because not all book formats and readers allow complex bullets. For bulleted lists, it's best to keep with a **Standard** bullet style and then select from the pre-defined bullet types in the **Standard bullet name** dropdown. Even this may be ignored by the ebook reader if it chooses to use its own bullets.

In the Spacing sub-page, define indentation appropriate for the current level.



List Style Editor spacing sub-page

The first line left indent defines the distance between the left margin and the bullet, while the left indent defines the distance between the left margin and the start of the list item text. These values may be ignored, depending on format and ebook reader.

List styles are the only way to achieve bulleted or numbered paragraphs (you can't define bullets per paragraph).

Note that the bulleted and numbered list buttons in the toolbar are hard-wired to apply the styles called "Bullet List 1" and "Numbered List 1". So if you delete either of these styles, the relevant button will no longer work. To apply a different list style, use the **Format | Bullets and Numbering** menu command, which will give you a choice of list styles to apply, along with the option to renumber the list.

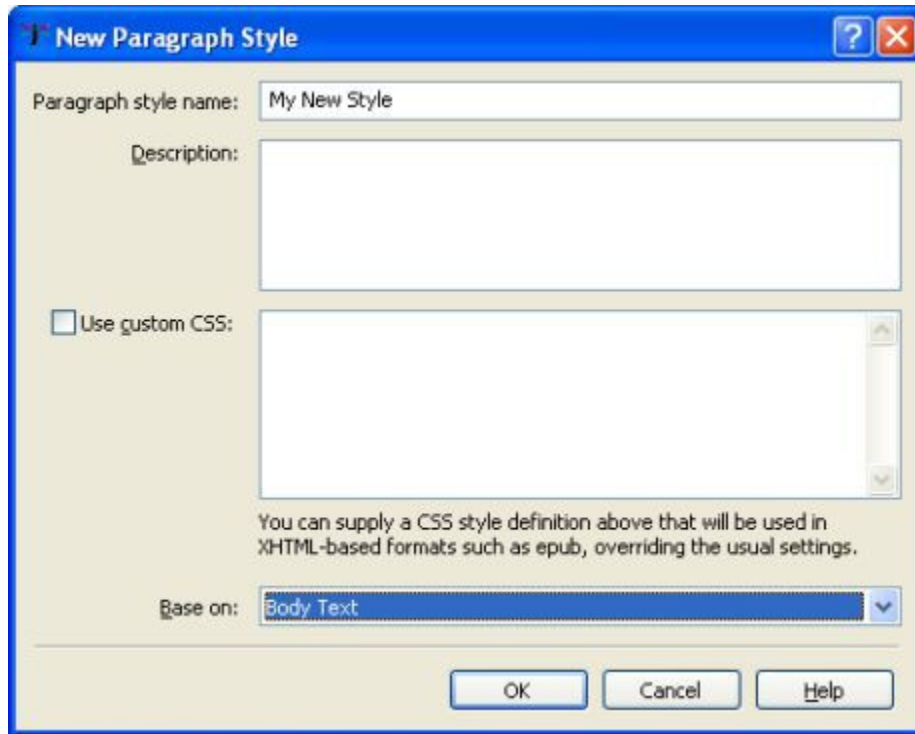
For some Epub and Kindle devices, you can specify a custom bullet image for lists. This is how:

1. Add a media document with a bitmap, e.g. "media/bullet1.png".

2. Edit or create a list style, and in the **List Style** tab, click on **Bitmap** for the bullet style and enter the media document path under *Standard bullet name*, e.g. “media/bullet1.png”.
3. Format a list item with this style.

Creating new styles

To create a new style, click on **New** and choose from paragraph, character or list style.

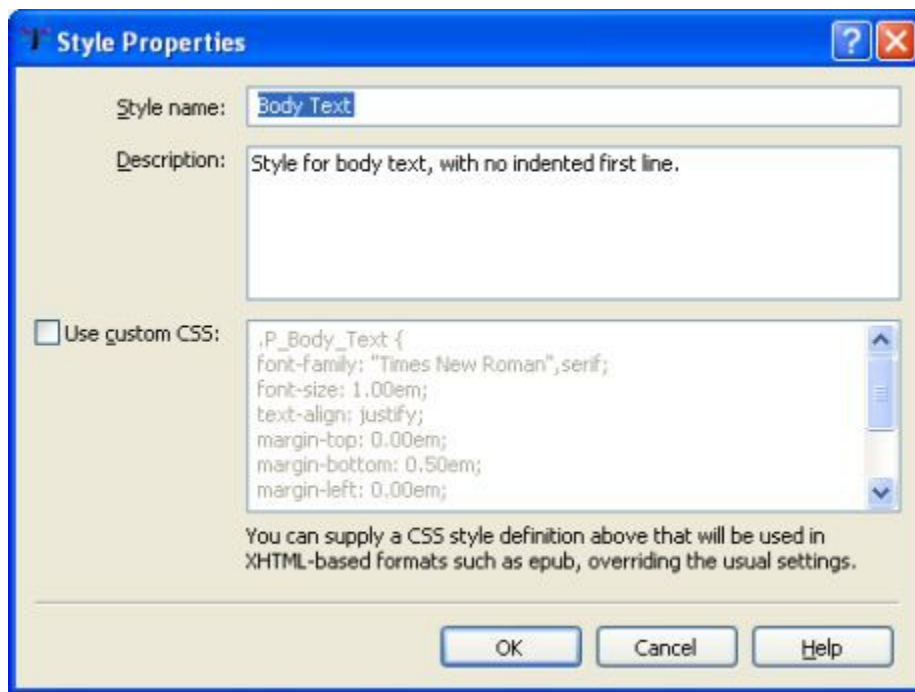


New style dialog

Enter the name, optional description, any custom CSS, and a style to use as a template. Note that the value of **Base on** in this dialog will only be used to set up initial attributes for the new style, and will not be the value of the ‘base’ (parent) style in the new style.

Editing style properties

The ‘properties’ of a style are edited using a separate dialog; click on the **Properties** button.



The Style Properties dialog

Here you can edit the style name and its description. You can also specify whether to give this style custom CSS that will be used directly instead of using the Jutoh-generated CSS (for HTML, Epub and Mobipocket formats only). This gives you more control over how the content will appear on the rare occasions that Jutoh-generated styling is inadequate. Remember that if you check **Use custom CSS**, any changes that you make to the style attributes using the style dialog will have no effect in the generated ebook because Jutoh is no longer in control of the CSS for this style.

CSS customisation is described in detail later in this chapter.

Applying named styles

There are various methods for applying named paragraph styles to text in your document:

- Select a paragraph and choose a style from the drop-down style control in the editor toolbar;
- select a paragraph, click **Format | Styles**, choose a style and click **OK**;
- right-click (or control-click on Mac), choose **Styles** in the context menu, and click on a style name.
- use custom keyboard shortcuts and Favourites, as explained in [Appendix B: Configuring Jutoh](#).

You can also apply named character styles to ranges of text:

- Select some text, click **Format | Styles**, choose Character Styles, choose a style and click **OK**;
- right-click (or control-click on Mac), choose **Styles | Character Styles** in the context menu, and click on a style name.
- use custom keyboard shortcuts and Favourites, as explained in [Appendix B: Configuring Jutoh](#).

Note that when a character style is applied via the context menu, it is merged with the attributes in the selected text, forming a new automatic style (see below), unless there are no attributes in the selected text, in which case the original character style name will be retained. So if it's important that the specific character style name is retained in your book, first reset the existing character styling for the selected text using **Format | Text | Reset Formatting**.

Automatic styles

If you apply *ad hoc* styling – that is, apply attributes such as bold, centring, paragraph spacing, and so on directly without choosing a named style with those attributes – then Jutoh will construct an automatic style with those attributes. You can tell an automatic style by the presence of ‘+’ symbols in the name, for example “Normal + Centre Alignment”. Automatic styles are stored in each section document, not in the editable style sheet, so they won't be visible except in the drop-down style control.

If you import a file from ODT (OpenDocument Text), you may find a lot of your content is unexpectedly formatted with automatic styles. If this is the case, your original document also had automatic styles but your word processor hid this by showing only the basic style name in the drop-down style control.

It's becoming a familiar refrain in this book, but *avoid use of automatic styles whenever possible*. When you need to apply formatting, consider if you can create a named style for this purpose, such as “Centred Picture” or “Picture Caption”. If you change your mind about the details of formatting later, you can then simply edit the named style rather than dozens, hundreds or even thousands of occurrences of the formatting throughout your document. You'll end up with a much better and more easily-edited document if you take the trouble to create and use named styles. Also, if you use a rational naming scheme for headings, you'll find it much easier to persuade Jutoh to create an [advanced table of contents](#). And finally, with named styles, Jutoh won't have to generate so many automatic styles in the generated ebook, which could reduce its efficiency and increase file size.

CSS dimensions

When exporting to ebook formats other than Epub and Mobipocket, paragraph dimensions for indentation, left margin, right margin, line spacing and paragraph spacing are specified in absolute dimensions (10ths of a mm). When exporting to epub and Mobipocket, Jutoh will convert these dimensions to em, which is a unit based on the current text size, or to mm, depending on the value of the *Use relative dimensions* configuration option. You can adjust the scale factor used for the conversion using the Options page in the Project Properties dialog. Since Mobipocket doesn't handle em units very well, it's recommended that you clear *Use relative dimensions* in your Mobipocket configuration (it is disabled by default for new projects).

Note that when marking up individual spans of text with either a character style containing a text size, or an *ad hoc* text size, the text size will be generated as an absolute point size, not in ems. This is because if it were in ems, the relative size would combine with the paragraph relative text size. So, please avoid using text size in *ad hoc* styles – define text size in paragraph styles where possible. Otherwise you will see inconsistent text size when scaling the ebook. You can eliminate non-paragraph styling by selecting text and then choosing **Format | Text | Reset Text Formatting**.


CSS customisation

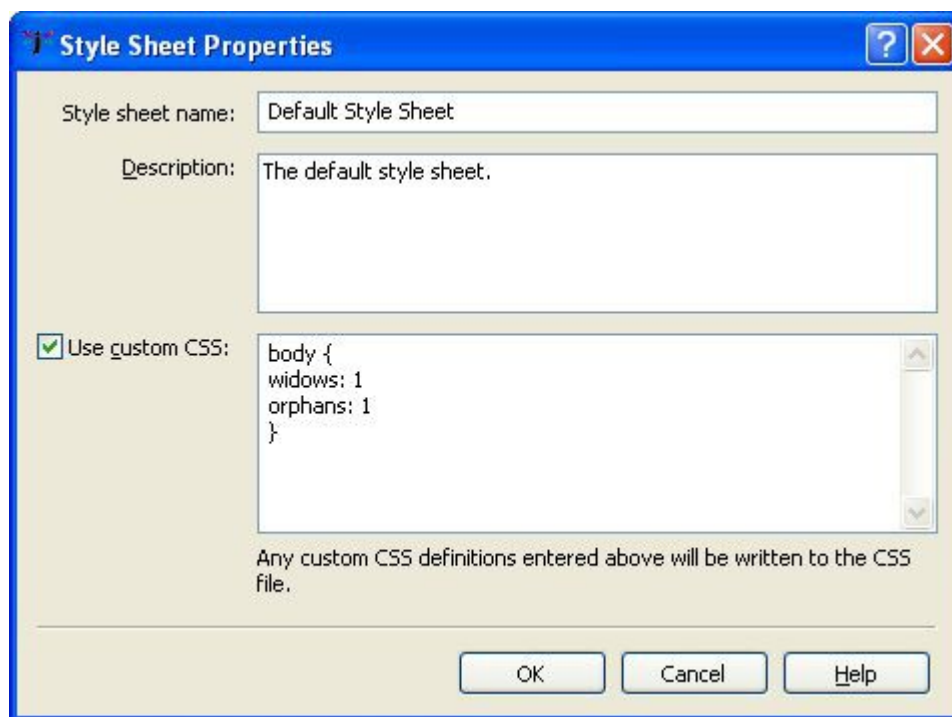
If you find that Jutoh's CSS style creation is inadequate for any reason, you can tell Jutoh what CSS

style to use instead of the current definition. These will be used only for Epub and Mobipocket format generation. Click on **Properties** in the Styles page and you'll see this dialog:

You can see the current CSS definition as it will be output to Epub and Mobipocket. Check **Use custom CSS** and edit the definition if you want to use an alternative definition. Remember that if you subsequently make changes to the style through the usual dialogs, it won't change your CSS definition until you clear the **Use custom CSS** option.

Note that if you customise style definitions, or use the HTML style, be sure to click **Check** after generating an Epub file in case you have introduced HTML errors. When you check a project, Jutoh invokes Adobe's EpubCheck tool to examine the Epub structure and content. You need to have Java installed for EpubCheck to work.

If you need further CSS customisation, you can edit the sheet properties by clicking the  **Style Sheet Properties** button and checking **Use custom CSS**.



Style Sheet Properties dialog

Add any CSS definitions you like in the field, and they will be added to the beginning of the CSS file that Jutoh generates, as well as the individual style definitions generated by Jutoh or specified explicitly by the user.

Special style names



In some cases, Jutoh will use the name of a style to influence the e-book output.

- “Heading 1”, “Heading 2” and so on are output to HTML as **h1**, **h2**, etc. You can change the value of the *Heading style prefix* configuration property to a different prefix, or clear it to prevent Jutoh generating HTML heading styles. Since the ebook reader will apply its default

heading styling to paragraphs marked as headings, you may find precise control of heading appearance easier to achieve if you switch this off in your configuration.

- The “HTML” paragraph style outputs the content of the paragraph directly to the HTML file without processing.
- The “HTML Text” character style outputs the spanned text directly to the HTML file without processing.
- The word “Preformatted” in a style indicates that HTML should use the **pre** tag.

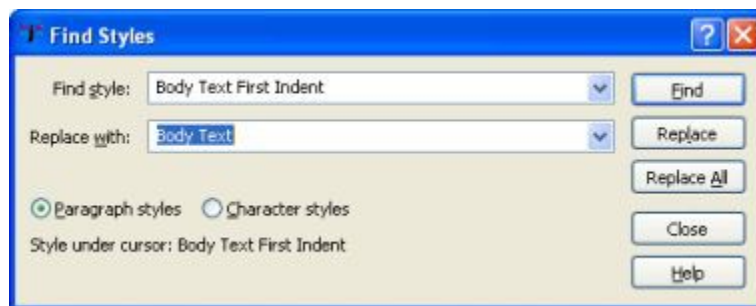
Importing and exporting style sheets

When creating a new project, or editing an existing one, you can import style sheets that were previously saved with a `.stylesheet` extension. In the Styles tab of the properties dialog, import style sheets with  **Import**, and save selected style sheets (one or more) with  **Save**. When importing, stylesheets will replace any existing style sheets of the same name.

Please note that these are not CSS style sheets – they are Jutoh-specific binary files. You will be warned if you attempt to import a regular `.css` file. Currently Jutoh is unable to parse CSS so you cannot import CSS either here or within an imported HTML file.

Finding and replacing styles

You can search for paragraphs with particular named styles, and replace them with other styles, using the Find Styles dialog, available from **Edit | Find Styles (Shift+Ctrl+T)**.



The Find Styles dialog

You can use asterisks in the style to find, so for example the string “Body Text*” will match against “Body Text”, “Body Text First Indent”, and also automatic styles derived from “Body Text” styles, such as “Body Text + Centre Alignment”.

As well as allowing search and replacement, the dialog will show you the named style under the current position in the text (paragraph or character style according to choice) which may be useful in troubleshooting style mysteries in your book, especially when style names are too long to identify properly in the drop-down style control.

Style substitutions

You can replace styles on a per-configuration basis by using the *Paragraph style substitutions* configuration property. For example, a value of “Normal: Normal Justified” will temporarily replace all instances of “Normal” with “Normal Justified” when the book is compiled. This can be useful to apply

minor tweaks without the need to maintain different style sheets for different configurations.

Using styles to change ebook content

In each configuration there are two properties that let you use styles to include or exclude content.

In *Paragraphs to exclude*, you can specify the comma-separated paragraph styles whose paragraphs should be excluded from the book. You can use “*” to mean all characters, for example “Only*” will cause all paragraphs with a style name beginning “Only” to be excluded, except for those specified in *Paragraphs to include*.

In *Paragraphs to include*, you can specify the comma-separated paragraph styles whose paragraphs will be exempt from exclusions. You can use “*” to mean all characters. For example, if this property has the value of “Only Epub”, paragraphs styles with “Only Epub” will be retained, but (assuming “Only*” in *Paragraphs to exclude*), all other paragraphs whose style name begins with “Only” will be removed. Thus you can include or exclude paragraphs in your document depending on the configuration.

When a new project is created, Jutoh sets up some paragraph styles for each format prefixed “Only”, for example “Only Epub”, which you can use together with the configuration properties. Of course, you may need several styles per configuration for different formatting, for example “Only Epub Centred”. If you use “*” in your properties, you can specify variants so you don’t have to mention every single style to include or exclude.

Here’s another example. Say we are going to create a Smashwords OpenDocument file which says “Published by Acme at Smashwords”, but all other formats will just say “Published by Acme”. We create two paragraph styles, one called “Only Smashwords OpenDocument” and another called “Non-Smashwords Formats”. In our title page, we have the two paragraphs:

Published by Acme at Smashwords

Published by Acme

The first is formatted with “Only Smashwords OpenDocument”, and the second with “Non-Smashwords Formats”. In our ‘Smashwords OpenDocument’ configuration, we set these properties:

Paragraphs to exclude: Only*,Non-Smashwords Formats*

Paragraphs to include: Only Smashwords OpenDocument*

In all other configurations, we keep the default properties, for example for ‘Epub’:

Paragraphs to exclude: Only*

Paragraphs to include: Only Epub

Now when we compile the ‘Smashwords OpenDocument’ configuration, all “Only*” styles will be excluded except for “Only Smashwords OpenDocument”, and “Non-Smashwords Formats” will also be excluded. When we compile another configuration, such as ‘Epub’, the “Non-Smashwords Formats” paragraphs will be included by default (it doesn’t need to be mentioned explicitly). Since we are using wildcards (“*”), it doesn’t matter if we apply ad hoc formatting to the paragraphs in question, since the wildcards will match the rest of the style name.

Another way to exclude content from your book depending on configuration is to add a style

substitution in the *Paragraph style substitutions* property. If you added “Epub Only:Comment” to this property, paragraphs formatted with “Epub Only” will be omitted from the final ebook, since paragraphs with the “Comment” style are removed.

Summary

In this chapter you have learnt a lot about styles and how to edit and apply them. Next, we'll look at Jutoh's 'string table' feature which gives you another way of customising your books.

Chapter 14: Working With String Tables

The string table feature gives you extra flexibility in customising your book, by defining how keywords will be replaced by text at compile-time, for all versions of your book or per-configuration.

Introduction

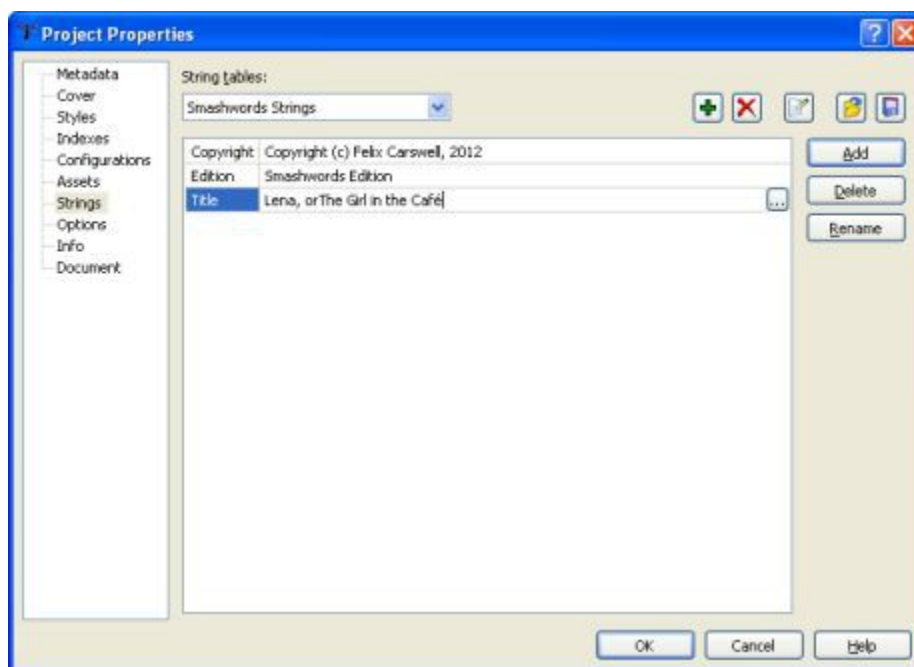
Sometimes you may wish to change text that Jutoh generates, for example the heading “Table of Contents” if generating a table of contents. You may also wish to define strings that can be used as keywords in cover designs, or change the way metadata is presented. This is where string tables come in. You can define several global string tables, independent of any project; and you can also define one or more project-specific string tables. Then in your configuration, you can select the global string table and/or project string table that should be used, and if there is a value corresponding to the string name, that value will be used instead of the original name.

For example, in Preferences, you could add a global table “English”, then add a string with name “Table of Contents” with value “Contents”. Then select the “English” string table for the *Global string table* property in all your configurations. The word “Contents” will now be used instead of “Table of Contents” in your generated book.

Continuing with the example, you can also use the keyword **%Table of Contents%** in your cover designs, and the word “Contents” will be substituted.

You can also include keywords in your metadata and, if the *Replace strings in content* configuration property is checked, in your book content, and they will be expanded before inclusion in your generated ebook. Note that string replacement in content only works for strings within the same paragraph formatted in the same character style.

Here’s another example: say you wanted the Smashwords edition of your book to contain different information from the other versions of your book. In the picture below, a string table called “Smashword Strings” has been added to the project properties, to be used to tailor the content of the book according to the Smashwords publishing platform:



The Strings page of the Project Properties dialog

The *Project string table* property of the Smashwords configuration will be set to “Smashwords Strings” and the keywords **%Copyright%**, **%Edition%** and **%Title%** can be used in the book text, so that the Smashwords edition of the book contains the appropriate strings. A string table would be defined for each configuration, or perhaps one fallback table “General Strings” would be used for non-Smashwords editions.

Troubleshooting string tables

If keywords are not being substituted, check that these requirements are met:

- Each keyword name in the content must be formatted with either no style, or a single style.
- Keyword names are case-sensitive.
- Each keyword must be enclosed in % symbols.
- You must set the project and/or global table names in your configuration.
- You must check the configuration property *Replace strings in content*.

Summary

You may never use string tables, but now you know the feature is there and what it’s for, you have an extra tool in case you need to do global or per-configuration customisation of the text within your ebook.

Chapter 15: Advanced Topics

This chapter describes a variety of advanced topics that the newcomer to Jutoh can most likely ignore.

Embedding fonts

Jutoh lets you embed fonts into Epub books. You might wish to do this to ensure that non-Western characters are rendered correctly, especially for viewing in Adobe Digital Editions, which fails to render non-European languages without embedding; or you may just wish to give your ebook a different look. However embedded fonts are not supported by all ebook readers, and there may be copyright issues; so you should only embed fonts if absolutely necessary.

An example of a Unicode font that you can freely embed in your ebook is DejaVu, available from:

dejavu-fonts.org/wiki/Main_Page

If you wish to create a Greek Epub, you can use the free Gentium font, available from:

scripts.sil.org/cms/scripts/page.php?site_id=nrsi&id=gentium

To embed a font, follow these three steps.

1. **Add a font.** Use the **Documents** toolbar button or **Document | Add Embedded Font** **Document** menu command. Select a font file when prompted. A copy of this font will be added to the project and you can change the font family name and other parameters. Change the font family name to match the font name used in your ebook styles, if applicable.
2. **Enable embedding in your configuration.** In your Epub configuration(s), available from the **Configurations** tab on the Project Properties dialog, scroll down to the *Fonts* group and check *Embed fonts* if not already checked. Note that if *Embed fonts* is enabled, as well as *Optimize for iBooks*, Jutoh will generate a file called `com.apple.ibooks.display-options.xml` with `specified-fonts` set to `true`. This enables font embedding for iBooks.
3. **Specify font substitutions.** If the font is installed on the computer and is therefore available from Jutoh's dialogs, and is specified in your book, then you're done. But if the font you want to use is not specified in your document, you must specify a font substitution in the *Font substitutions* property in your configuration. For example, "Times New Roman: DejaVu Sans, Times New Roman". This will use DejaVu Sans, Times New Roman for the font family wherever Times New Roman is found in style definitions and content. The ebook reader will fall back on Times New Roman if it can't find the embedded font DejaVu Sans. You can specify multiple font substitutions by separating them with semicolons.

If you have multiple font files for a single font family, for example regular, bold and bold italic variants, you can use the same font family name in all of these font documents (for example, DejaVu Serif) and specify the italic style and weight properties in each font document, as in the following:

Font document

Jutoh will generate the appropriate CSS so that the viewer can use the correct font file for each combination of italic style and weight.

If font embedding isn't working at first, check that the font family specified in the font document is *identical* to the font name you use within styles, or within your font substitutions. Otherwise the ereader will not be able to find the correct font to use.

Embedding media

Jutoh lets you embed audio and video into Epub and Mobipocket books. This is only supported in some readers (for example, iBooks), and Amazon may not accept Mobipocket containing multimedia (and media in locally-transferred Mobipocket files may be blocked).

For video in iBooks, Apple recommends that you use H.264 compression at VGA resolution. The poster image should be 150x300 pixels. Audio should be stereo, AAC/MP4, 256kps, encoded using iTunes.

Amazon's guidelines for formatting Kindle books, with information about audio and video formats, is available at:

kindlegen.s3.amazonaws.com/AmazonKindlePublishingGuidelines.pdf

To embed a media object, follow these three steps.

1. **Add a media document.** Use the **Documents** toolbar button or **Document | Add Media Document** menu command. Select a media file when prompted. A copy of this file will be

added to the project (it may take a long time if the file is large) and you can change the file name to be used and other parameters.

2. **Insert a media object into your content.** Use the **Insert | Media Object** command on the **Format** menu or the context menu, and when prompted, choose the file name from the list of media objects currently in this project. Enter other parameters if you wish, such as a title, and fallback text to show if the reader does not support the audio or video tags. You can preview your file in Kindle Previewer, setting the device to (for example) iPhone or iPad, to see the effect of adding media.
3. **Ensure media objects are switched on in your configuration.** Under the *Images and Media* group in your configuration, check that *Generate media objects* is enabled. If you switch this off, no media files will be included in the book and the media tags will not be included in the XHTML.

You can also use media documents and objects to insert images. The image won't show up in the editor when you insert a media object that references the media document, but there is an advantage – you could add several media documents with the same name, at different resolutions, and use configurations to selectively include and omit media documents from the generated ebook. You do this by specifying tags in your media document, (for example, “hires”, “lores”) and then specifying tags in the configuration options *Include media documents matching tags* and *Exclude media documents matching tags*. This technique is also useful for very large images that take a long time to load into the editor when inserted directly.

Embedding a PDF

Currently embedding a PDF into your book works in iBooks only.

1. Add the PDF and PNG files to the project as media objects (**Document | Add Media Document**).
2. Add this to your content, in its own paragraph:

```
<p><a href="media/subwaymap.pdf"></a></p>
```

substituting your own file names.
3. Apply the ‘HTML’ style to the above paragraph.

EpubCheck will complain about the syntax, which you can ignore.

Setting a background image

The following method works for some Epub viewers, including Adobe Digital Editions.

1. Insert a new image into the Resources section of your Jutoh project using **Document | Add Media Document** and selecting an image.
2. Ensure that *Generate media objects* is enabled in your configuration.
3. Right-click on the section(s) you want to have a background image, select Properties, and insert the following into the **Extra CSS** field:

```
body {
    background-image: url(media/image.png);
    background-repeat: repeat;
    margin: 0 0 0 0;
```

}
where `media/image.png` is the path specified in the media object. Alternatively, if you want it on all pages, you could add this once to the the style sheet (click on the **Edit** button at the top of the Styles page in Project Properties, check **Custom CSS** and paste the code).

Adding tables

Tables are not officially supported by Jutoh, but if you really need them, there are workarounds:

1. Prepare an image containing the table, perhaps by taking a screen shot of an existing document and saving it as a JPEG or PNG. Insert that image in Jutoh as usual.
2. Enter the table as HTML code and format it with the HTML style. This tells Jutoh to pass the text directly to the HTML file, and only works for Epub and Kindle formats.

An example of an HTML table that will work with Epub and Mobipocket is provided at the Mobipocket developer's site, at:

www.mobipocket.com/dev/article.asp?BaseFolder=prcgen&File=tables.htm

Understanding encodings

When importing text files, Jutoh needs to know what the encoding of your files is, since otherwise the files are just streams of bits that could represent anything. A 'standard' ASCII file only represent the basic symbols, whereas files encoded in Unicode can represent most symbols in use on the planet. Jutoh's favoured Unicode encoding is UTF-8, in which plain text is encoded with one character per symbol (and so is readable in any text editor) and more complex symbols are represented by two or more characters.

When you save text from a word processor, you need to make sure it's going to write using the encoding that you've specified in the New Project Wizard or Project Properties. For example, when saving a document as plain text from Microsoft Word, Word will show you a further dialog. Click on **Other encoding** and select "Unicode (UTF-8)". Don't check **Insert line breaks**, since you want each paragraph to be one line.

If you forget to save in the right encoding, you may be able to fix it, as follows. When you get an Jutoh error indicating an encoding problem (or the file doesn't show properly in the finished book or the editor), open the file in an encoding-savvy application such as Programmer's Notepad. It should auto-detect the encoding, which you can check by typing **Alt+Enter** to see the document's properties. Now select the whole document and copy it to the clipboard. Create a new file, change the encoding to UTF-8 in the document's properties, and paste the text into it. Save this over the original file – it's now in the correct encoding.

If you can't change the encoding of the original file, you can specify it in the Import Options section of the New Project Wizard, or the Options page of Project Properties if you're importing a file after initial project creation. Also, if you are importing HTML or Epub and the encoding is missing from one or more HTML files, Jutoh will use this setting – it will also warn you about the missing encoding so you can go back and specify it. For example, if the file was created on Windows without specifying UTF-8, you could try the value 'Windows Western European'.

Guide types

Each document in a book can have a "guide type" which is written to the guide section of the Epub or

Mobipocket file, and indicates the role of the document. You can set the guide type by right-clicking on the document in the outline, selecting **Properties** to show the Document Properties dialog, and then changing the **Guide type** selection.

These are the possible guide types:

- acknowledgements
- bibliography
- colophon
- copyright-page
- cover
- dedication
- epigraph
- epilogue
- foreword
- glossary
- index
- loi – list of illustrations
- lot – list of tables
- notes
- other.back-cover
- other.intro
- other.ms-firstpage – the place to start reading. Kindle only, deprecated in favour of “text”.
- other.reader-start-page – the place to start reading. iBooks only
- preface
- start – the place to start reading. Kindle only, deprecated in favour of “text”.
- text – the first chapter of main body of text; it should not be used more than once
- title-page
- toc – table of contents

When Jutoh generates a section without it being present in the project outline (for example, the cover page and simple table of contents page), it will set the appropriate guide type.

If you use the keyword %STARTPAGE% for the guide type, it will be replaced by the appropriate type for Mobipocket or Epub, as specified by the current value of the configuration option *Start page guide type*. However, this has become unnecessary since all ereaders now recognise (or quietly ignore) the “text” guide type.

How to format drop caps

Jutoh doesn't support drop caps directly, but you can use CSS to achieve it (at least in Epub, with slightly less success on Mobipocket). There's some information about the general principles [here](#) (external link).

In recent versions of Jutoh, a "Drop Caps" character style is created automatically in the default style sheet, which you may wish to adjust to your preferences.

If Jutoh has not already added a "Drop Caps" character style, go to Project Properties/Styles, click **New Style**, choose **Character Style**. Enter the name "Drop Caps". Press **OK**. Still in the Styles panel, in the drop-down under the styles list, choose **Character styles**. Select "Drop Caps", click **Edit**, go to the Font tab and choose a large font, say 20pt, and choose **Bold** under **Font weight**. This is just to show a large bold font in the editor; this exact formatting won't show in the ebook. Press **OK** to dismiss the "Drop Caps" editor and now click on **Properties** to show the Drop Caps property dialog. Check **Use custom CSS** and paste in this text:

```
.C_Drop_Caps {  
  overflow: hidden;  
  line-height: 90%;  
  height: 0.75em;  
  font-size: 280%;  
  margin-right: 0.075em;  
  float: left;  
}
```

This should replace the existing text – if you used a different name for the Drop Caps style, make sure it's reflected in the name after the dot in the CSS.

Now press **OK**, **OK** again and in the editor, select the first letter of your paragraph and apply "Drop Caps" to it. You can do this with right-click (or control click on Mac), **Styles**, scroll to the bottom of the menu, click on **Character Styles**, choose "Drop Caps".

Now when you compile the Epub and show it in, say, Adobe Digital Editions, you should see something approximating a drop caps. In Kindle it'll be shown as a large letter, just not dropped. You may need to tweak the CSS to work better with your choice of font sizes.

How to format small caps

Small capitals can be applied to a named style or directly to text via the **Font** tab of the style editor. For convenience, you could add a character style called "Small Caps" that just has this attribute defined.

When generating Epub and Mobipocket ebooks, Jutoh can generate small caps either by using the official *font-variant* CSS attribute, or by emulating it by emitting capital letters and shrinking the text. Adobe Digital Editions and some other ereaders do not support *font-variant*, but all ereaders will do a reasonable job using small caps emulation, so by default emulation is used. To use *font-variant* instead, clear the *Emulate small caps* configuration option. For those ereaders that support it (for example, Kindle readers, iBooks, and the Azardi software), *font-variant* is a superior method since it renders real capitals larger than the lower case letters. However, if you're targeting multiple ereaders, emulation is safer.

If you wish to add small caps to the first few words of your chapters, there's a handy option in the

Document Cleanup dialog (accessed from the **Book** menu) to do just that. Before using it, you'll need to create a "Small Caps" character style.

How to add an ISBN to your books

Some platforms require you to supply an ISBN for your ebooks. For example, to get your books into the premium Smashwords catalogue, you need an ISBN for each ebook. This needs to be separate for each book edition – paperbacks, hardbacks and distinct ebook editions for different platforms all need separate ISBNs. You can buy a set of ISBNs from the relevant agency (in the UK, it's Nielsen), or you can see if your ebook publisher such as Smashwords can supply ISBNs.

Having got your ISBN, where do you put it? Go to the metadata in Project Properties (just click on the **Edit** button on the toolbar) and click on the "..." button next to the **Identifier** field. Click **Add** to add a new value to this element, and choose **Add ISBN**. Enter the ISBN (just the number, including dashes) into the **Value** field. Now delete the original value, "Element 1".

OK, so you have different ISBNs for different ebook editions – but you want to publish your ebook to different platforms, with different ISBNs, without having to edit separate Jutoh files for each edition. The way to accomplish this is via *string tables*. String tables allow you to set up substitution tables; since we can specify a different table for each configuration (Mobipocket, Epub and so on), we can put a variable called, say, %ISBN% into the ISBN value field, and substitute a different ISBN value from the different tables, depending on the current configuration.

Let's assume that you are using two configurations, Mobipocket and Epub. The Mobipocket book is going to the Kindle store, and the Epub book is going to the iTunes store.

1. Click **Edit** on the toolbar, then the Strings tab. Click the "+" button to add a new string table, and call it Kindle.
2. Click **Add** and enter "ISBN" to add a new string whose name is ISBN.
3. Click on the value field (second column) and enter the ISBN for the Kindle store.
4. Repeat the above, adding a new string table called iBooks and adding the second ISBN value.
5. Click **OK** to dismiss the Project Properties.
6. Click **Edit** on the toolbar again, then the Configurations tab.
7. Click on the Mobipocket configuration, and scroll down to the String Tables group.
8. Select "Kindle" in the *Project string table* property.
9. Click on the Epub configuration, and scroll down to the String Tables group.
10. Select iBooks in the *Project string table* property.
11. Click on the Metadata tab and enter %ISBN% into the **Identifier** field.
12. Press **OK**.

Now when you select a configuration, a different string table will be used and the %ISBN% variable will be filled in with the value of "ISBN" in the appropriate string table.

If you have different editions of your book with the same format (for example, a Mobipocket file you put on your web site, and one that you upload to Kindle), you can just add another configuration

(taking care to set the format property correctly) and a string table to go with it. So you can have as many configurations as you have sites that you upload to.

You can use the string table to change other things in your metadata and (if you check the *Replace strings in content* configuration property) your book pages.

For more information on string tables, see [Chapter 14: Working with String Tables](#).

How to specify which sections will be included in the ebook

In [Chapter 13: Working With Style Sheets](#) we saw how we could change the content of the book using styles. Another way of changing content is to include or exclude entire sections. There are two ways of doing this: specifying in the Book Section Properties dialog whether this section will be included for a given format, and specifying inclusion or exclusion by tags.


Specifying inclusion by format is inflexible, because you might have different configurations for the same format. To use tags, first enter tag names into the Book Section Properties dialog for each section document. You can show this using the **Document | Document Properties** command (**Shift+Alt+Enter**). Let's say you only want the first three chapters of your book to be shown in your book sample; you have created a new configuration called "Sample Epub". Now add the tag "sample" to your title page, table of contents (if there is one) and the first three chapter documents.

Next, edit your "Sample Epub" configuration and in the property *Include sections matching tags*, type the value "sample". Regenerate your table of contents and compile. You should now have an Epub that contains only the sample content.

If you have a section that should only be included for a particular configuration, then give it a tag and enter that tag in *Exclude sections matching tags*.

You might also make use of this to have alternate title pages, intended for different distribution channels.

Removing underlining from links in HTML-based formats

There is no provision in Jutoh for specifying this level of detail, so it needs to be done using custom CSS. You can add CSS either globally if you want no underscores throughout, or per section. To add it globally, go to the Styles page on the Project Properties dialog and click on **Edit Properties**  at the top of the dialog. Check **Use custom CSS** and paste in the CSS code.

Let's say we want to make the link colour red, and remove underlining. You can use the following code:

```
a:link { color: red; text-decoration: none; }
a:visited { color: red; text-decoration: none; }
a:hover { color: red; text-decoration: none; }
a:active { color: red; text-decoration: none; }
```

Alternatively, if you want the colour to be the same as the surrounding text, but keep underlining, you could use:

```
a:link { color: inherit; text-decoration: underline; }
a:visited { color: inherit; text-decoration: underline; }
a:hover { color: inherit; text-decoration: underline; }
a:active { color: inherit; text-decoration: underline; }
```

To apply CSS to an individual section only, right-click over a section in the project outline, select **Properties**, and then check **Extra CSS**. Paste in the above page and press **OK**.

You might notice that when you look at the HTML generated by Jutoh for links, the style you applied to the link has been removed. This is because if the configuration property option *URL attribute removal style* has a style value, the attributes in the style will be removed from the link before it is written to the HTML file. This avoids clashes between the styles specified in the editor and defaults used by the ereader – such clashes can make links look untidy, especially if the Jutoh and ereader URL colours are slightly different. It's better that the ereader shows links in the default style than in a mixture. You can reapply the intended attributes using CSS properties, as above.

Creating fixed layout ebooks

Jutoh is primarily a tool for creating reflowable text and picture ebooks. However, you can create fixed layout ebooks for iBooks with the restriction that each page is a single image.

Use the *Enable fixed layout* configuration option, and specify the width and height of the images that will be used in each section (they should all be the same size). Switch off table of contents and title page generation, since the presence of reflowable content will cause the book to show up as a tiny mess.

In a future edition, Jutoh will have special support for fixed layout books for a variety of readers, with text and images superimposed on the main page image.

Jutoh and Epub 3

There is preliminary support for Epub 3 – you can switch Epub 3 support on by setting the *Epub version* configuration property to 3. The adaptations to Epub 3 are currently as follows:

- The new-style table of contents file is generated, while the old NCX file is included for backwards compatibility;
- Epub 2 guide types are converted to Epub 3 equivalents where possible;
- if documents contain guide types, a 'landmarks' table of contents is generated;
- metadata is generated using the new Epub 3 syntax, with mandatory date metadata;
- XHTML files have the correct preamble;
- the text section document's **Scripted** property value is reflected in the manifest;
- In Jutoh Plus, JavaScript code can be embedded (also in 'Epub 2.5', i.e. iBooks).

Jutoh is distributed with EpubCheck 3, which means it can check both Epub 2 and Epub 3 files if you have Java installed.

Chapter 16: Understanding Ebook Formats and Platforms

In the [Introduction](#), we looked briefly at the ebook formats that Jutoh supports (either directly, such as Epub, or indirectly, such as PDF). In this chapter, we'll go into more detail about these formats, and also describe the major distribution platforms that you may wish to use for selling your ebooks.

Formats

Epub

Epub is a free and open standard for reflowable ebooks, maintained by the [International Digital Publishing Forum](#) (IDPF). The most popular version of the standard is version 2, as used by all current Epub-based reader hardware and software, and a specification of version 3 is now available but implementations are not widely used in the real world. Version 3 adds more flexibility for absolute positioning, addition of sound and video, and web-like custom features using Javascript. Jutoh currently targets Epub version 2, but will target version 3 when it becomes more widely used. Ebook readers are likely to support version 2 Epubs in the foreseeable future.

An Epub file is basically a zip archive containing XHTML content, metadata describing the book, and a navigation map describing the structure of the book. An Epub can be encrypted, but this depends on cooperation between a particular platform (such as iBooks) and the corresponding reader software. When you submit an ebook generated by Jutoh to an established publishing platform, the platform will deal with encryption issues.

Note that even though Epub is a standard, there are always quirks in the way ebook reader software and hardware implement the standard. Jutoh tries to smooth over these differences; for example, Jutoh's iBooks optimization feature fixes a problem with iBooks failing to honour centre alignment.

Mobipocket

Mobipocket is a format purchased by Amazon to be used by Amazon's Kindle hardware and software; now Amazon are the odd man out in being the only ebook player using a non-Epub format. However, Mobipocket is based on Epub and Amazon's [Kindlegen](#) application (formerly Mobigen) takes a set of Epub-like files (including the OPF file) as input to generate Mobipocket as output. Mobipocket XHTML differs from genuine Epub XHTML in various ways, and you can read about the details at www.mobipocket.com/dev/. Jutoh generates XHTML that is optimized for Mobipocket, and then calls Kindlegen to create the Mobipocket file.

Mobipocket files have the `.prc` or `.mobi` extension.

Kindlegen is not the only application that can create Mobipocket files – there is Mobipocket Creator from the originators of the Mobipocket format, and [Calibre](#) can also be used (Jutoh can be configured to use Calibre instead of Kindlegen). However, Amazon strongly recommends that you use Kindlegen.

Jutoh can use the latest Kindlegen for creating KF8 files, which will work on Kindle Fire as well as earlier Kindle devices. However, this doesn't mean that Jutoh supports all the available features of the Kindle Fire; more advanced features will be added to Jutoh in due course.

Adobe Portable Document Format (PDF)

PDF is a popular format for complex, fixed-layout documents, but is not ideal for devices with small screens and the ability to choose text size, which requires the ability to reflow the document. Jutoh can create OpenDocument Text (ODT) files which can then be turned into PDF, for example using the **File | Export as PDF** command in OpenOffice.org Writer or LibreOffice Writer. You can view the PDF in Adobe Acrobat Reader or Adobe Digital Editions (ADE). On Windows, you can force the document to be viewed in ADE by using **Open With...** in Windows Explorer's context menu, or you can drag the document to ADE.

When displayed in Adobe Digital Editions, a PDF containing bookmarks will show a table of contents in the left-hand pane. From version 1.52, Jutoh will generate styles with the required outline information if they are specified in the named styles, and then OpenOffice.org Writer or LibreOffice Writer will be able to save the bookmarks for the headings in the document. For this to work, you will need to make sure that "Heading 1" has its outline set to 1, "Heading 2" has an outline of 2, and so on. (And of course you will need to be using these styles in your project!) The outline setting can be found on the Indents & Spacing tab of the Jutoh style editor dialog. You can switch off outline output using the *Use outline levels* configuration property, for example if your document doesn't use heading styles consistently and it would create a poor table of contents in Adobe Digital Editions. If your Jutoh styles don't have outlines, you can achieve the same effect by using the **Tools | Outline Numbering** command in Open/LibreOffice to set numbering for your heading styles.

Jutoh 1.51 and above outputs appropriate metadata to ODT files so that when you export to PDF, the title and author will appear in the left-hand pane in Adobe Digital Editions. If your cover design is on the first page of your ODT file, it will be used for the thumbnail in Adobe Digital Editions.

See also the next topic for creating headers and footers and a hyperlinked table of contents with page numbers for your PDF file.

OpenDocument Text (ODT)

OpenDocument Text is a word processor format that can be converted to many other formats such as Word and PDF, using for example the free OpenOffice.org suite, or LibreOffice which is an offshoot of the OpenOffice.org project. Note that Word itself tends to create more compact .doc files than does OpenOffice.org or LibreOffice, so you might want to re-save the file using Word if file size is an issue.

Jutoh doesn't generate any headers or footers; to add page numbers to an ODT file generated by Jutoh, follow these steps in LibreOffice (OpenOffice.org doesn't currently support the **Format | Title Page** command):

1. Open the file in LibreOffice Writer.
2. Mark the title page using **Format | Title Page**; enter **2** into **Number of title pages** (to skip the cover and title page) and choose **Convert existing pages to title pages**. Check **Reset Page Numbering after title pages**. Press **OK**.
3. Choose **Format | Choose Footer | Default**. Click on the first available footer and choose **Insert | Fields | Page Number**.
4. Select the page number field and centre it.

You can also add a header if you wish, perhaps containing the title of the book.

To add a table of contents with page numbers and not just links, follow these steps in OpenOffice.org Writer or LibreOffice Writer:

1. Delete the Jutoh-generated table of contents.
2. Click on **Format | Indexes and Tables | Indexes and Tables** to show the Insert Index/Table dialog.
3. We need to associate heading styles used in the document with levels in the table of contents, similar to how Jutoh works when searching for headings to put in the table of contents. Check **Additional Styles**, and click the “...” button. Assuming you are using “Heading 1”, “Heading 2” and so on for headings in your document, click on each of these in the list and click on the >> button to position each at the appropriate point in the table: “Heading 1” at position 1, “Heading 2” at position 2, and so on. Press **OK** but don’t dismiss the Insert Index/Table dialog yet.
4. Now we need to make the entries hyperlinked. Click on the **Entries** tab and in the Structure area, click in the box just before the E# button, then click **Hyperlink**. Click in the box just after the E and click on **Hyperlink**. This creates LS and LE marks (Link Start and Link End). Click **All** to apply this to all entries, and then click **OK** to dismiss the dialog.
5. Right-click over the special “Table of Contents” field that has been inserted in the document and choose **Update Index/Table** and you should find that a table of contents with page numbers appears.

MP3

Jutoh can output audio books in the form of MP3 files, using the operating system’s built-in text-to-speech engine or one of several other engines such as eSpeak. Obviously this is not going to be as good as a human reading the book, but it can be helpful in some circumstances, such as listening to a book when commuting. Also note that when using some voices, the generated MP3 files can’t be distributed commercially without permission from the original voice license-holder.

Creation of MP3 files requires an MP3 encoder; Jutoh uses the LAME encoder, as described in [Appendix A: Installing Jutoh](#).

Platforms

Amazon Kindle

Kindle books account for maybe half of all ebooks sold, so it’s obviously important to be in the Kindle store. Fortunately, Amazon makes this very easy for the independent author or small publisher using their publishing tools, in the USA and UK (check for support in other countries). You can upload your Jutoh-generated Mobipocket file, and Amazon will encrypt it for you if you wish. One of the great things about supporting the Kindle platform is that your books can be read on most smartphones, PCs, and Macs as well as on Amazon’s Kindle hardware.

To create files suitable for processing by KindleGen, Jutoh generates XHTML, CSS and other files that are nearly identical to the ones used for Epub creation. However, the original Mobipocket format (KF7) is not quite as flexible as Epub and there are restrictions as well as features unique to Mobipocket. Jutoh proves the configuration option *Optimize for Mobipocket* which does the following:

- Within lists, there are no paragraph classes, only list item classes, since adding paragraph tags in lists breaks KF7 rendering.

- Multiple paragraphs in a list item are faked using line breaks.
- Link anchors are inserted before paragraphs, not within them, because a Mobipocket bug can cause styling loss if navigation causes only part of the paragraph to be visible.

Jutoh optimizes code so the book will look as good as possible on both older KF7 devices and newer devices supporting KF8. Where generated CSS code is different for each platform, Jutoh uses ‘media queries’ so the appropriate code is used on each platform. Jutoh may perform other tweaks in future releases. The *Optimize for Mobipocket* option is switched on by default for the initial Mobipocket configuration.

Although Jutoh takes care of most of the low-level Mobipocket/Kindle technical details, you may also wish to read Amazon’s guidelines for advice on presentation, image size, video formats, and so on:

s3.amazonaws.com/kindlegen/AmazonKindlePublishingGuidelines.pdf

It is possible to upload Epub files to Amazon instead of converting to Mobipocket first, but you may miss out on Jutoh’s Mobipocket optimizations and it’s better to preview the Mobipocket file on your machine than to rely on Amazon’s conversion before previewing with ‘Look Inside’.

Paragraph spacing in Mobipocket

You may be wondering why there is no inter-paragraph spacing in your Mobipocket file on KF7 devices, even though you specified it in Jutoh.

When the configuration option *Use relative dimensions* is checked, Mobipocket rounds paragraph spacing (before or after) to the nearest ‘em’ unit, so for example 1.4em becomes 1em and 1.5em becomes 2em. In fact you specify spacing in tenths of a mm within Jutoh, which are then converted to em by multiplying by 0.02, so 25 tenths of a mm become 0.5em. From this you can see that 25 is the minimum value you should use to add spacing in a Mobipocket file, since anything less will be rounded to zero. It’s best to ensure that your Mobipocket configuration is using absolute dimensions (mm), by clearing the option *Use relative dimensions*.

Mobipocket does not honour line spacing, although this can be changed by the book end-user on some readers.

KF7 may also omit inter-paragraph spacing if there is a left indent.

Lists in Mobipocket

Mobipocket doesn’t support list type specification, so ordered lists can only have arabic numbering. Also, paragraph specification will only work for the outer list level due to the paragraph tag not honouring paragraph margins. To work around this, Jutoh places the vertical margins (before and after paragraph spacing) on the list item tags for the first level only. Specifying the margins for nested items would cause space to be accumulated after closing list item tags.

Mobipocket lists don’t honour custom indentation specification so the defaults will be used.

Setting the start page

By default, the Kindle reader will choose a suitable page to associate with the **Beginning** menu item or button in the reader. However you can change this by changing the document guide type to “text”. To do this, right-click on a document in the project outline to show the Book Section Properties dialog. Select “text” from the **Guide type** dropdown list. You can also use the keyword %STARTPAGE%, in

which case Jutoh will substitute the value of the property *Start page guide type* in the current configuration. This allows you to use a start page appropriate to the target device depending on configuration. Press **OK** and compile the book again.

Indenting table of contents items

You may find that the table of contents page isn't indenting items as you expect, when viewing the Mobipocket version of your ebook. This is because Mobipocket (KF7) implements first-line indent, but not full left indent (or hanging indents). The solution is to edit the paragraph styles for table of contents entries, such as "TOC Entry 2", and give them first-line indents instead of full left indents. Go to Project Properties/Styles and in Indents & Spacing, set **Left** to 0 and **Left (first line)** to a non-zero indent value such as 120.

The downside of this is that long items that wrap will not be fully indented, but in most cases the items will fit and will appear indented.

Alternatively, you can adjust the Mobipocket configuration option *Styles for indent fix*, which converts matching paragraph styles to first-line indent instead of full left indent. The default setting is "TOC*" which applies this change to all table of contents entry styles. You can clear this entry if you do not want to adjust any styles.

Multimedia in Kindle books

Although the Amazon Publishing Guidelines describe how to embed audio and video, it seems that they will currently not accept books containing multimedia and any existing books containing audio or video were submitted during an experimental beta phase. Locally downloaded Kindle books will have their multimedia blocked. This may change in future.

At the time of writing, JavaScript is not supported in Kindle books submitted via KDP.

Checking your Kindle ebook

For automated checking, you can check the *Generate Epub* option in your Mobipocket configuration so that **Check** can work on the Epub equivalent of the Mobipocket file (the formats share files and most formatting). Some Mobipocket-specific HTML will be included in this Epub so you may need to ignore a few of the errors, in particular those flagging up incorrectly positioned "a" tags (bookmarks).

We recommend that you review your Kindle book in both Kindle for PC/Mac and Kindle Previewer. Kindle Previewer lets you set the current simulated device type (including Kindle hardware, iPad, and iPhone).

iBooks

Apple's Epub-based iBooks platform is administered through iTunes. Unfortunately, only the USA is supported at the time of writing, unless you are already set up to do business in the USA. Fortunately, you can use Smashwords to target iTunes, from any country.

Epub files for iBooks need a little tweaking to perform well on iOS. Edit your Epub configuration(s) and check the *Optimize for iBooks* property. Jutoh will then apply a few small changes the next time the book is generated. These are:

- Font names are removed from styles (unless *Generate font names* is enabled).

- Dummy span tags are added to centered paragraphs, since otherwise the centering is lost in full justification mode.
- An image that is on its own in a paragraph, and has its size dimensions specified in its properties, is generated using a `div` that takes the dimensions of the image, and dimensions are removed from the image itself. This is because iBooks ignores width and height specifications in images, and using a parent `div` is a widely used workaround.
- If either *Generate font names* or *Embed fonts* is enabled, at the same time as *Optimize for iBooks*, Jutoh will generate a file called `com.apple.ibooks.display-options.xml` with `specified-fonts` set to `true`. This will tell iBooks to respect the fonts that are specified in the book; otherwise iBooks will choose standard fonts.

Please note that if the configuration option *Exclude cover from reading order* is checked, the cover image does not appear in the actual iBooks reader, only in the iBooks bookshelf.

Here are some of the recommendations Apple gives for creating Epub files for iBooks.

- Use guide types such as “toc”, “title-page”, “preface”, “other.back-cover” and so on – use the Book Section Properties dialog, available by right-clicking on a document in the project outline and choosing Properties, or by using the **Document | Document Properties** menu command or **Shift+Alt+Enter**.
- The first page displayed will be determined from the guide type in this order of preference: text, acknowledgements, dedication, epigraph, foreword, preface, other.intro. Override this with the other.reader-start-page guide type. You can also use the keyword `%STARTPAGE%`, in which case Jutoh will substitute the value of the property *Start page guide type* in the current configuration. This allows you to use a start page appropriate to the target device depending on configuration.
- For cover art, use TIF, JPEG, or PNG image using RGB colours and at least 600 pixels on the larger axis. So at least, say, 400x600. Don’t include pricing or a reference to the physical edition on the cover.
- Limit embedded images to 2 million pixels, and don’t use text in images if at all possible.

For further information, see the file `iBookstoreAssetGuide.pdf` available if you have an iTunes Connect account.

Barnes & Noble Nook

Barnes & Noble uses the Epub format for their range of Nook devices and apps; you can get your books on their site via Smashwords, or directly from their ‘PubIt!’ publication site at pubit.barnesandnoble.com. The PubIt! site contains [formatting](#) and submission guidelines. Nook readers are popular in the USA and came to the UK in late 2012. These are some of the guidelines mentioned on the PubIt! site:

- The page margins should be set at 30 pixels on the top and sides, with 20 pixels on the bottom. In Jutoh, these can be set in your configuration (for example, *HTML left margin*).
- Embedded fonts are allowed, but discouraged due to the extra size and licensing issues.
- A Title Page is mandatory.

- The Copyright page should show the ebook ISBN.
- Cover image sizes range between 500x600 to 600x730.

When generating for Nook, switch off *Generate iBooks XML* in your Epub configuration or the file may be rejected.

The Nook doesn't honour the 'text' guide type and so it is not possible to specify the first page when the reader first opens the book.

Your ebook cover – when viewed inside the book – will have margins around it; this is due to the fact that the Nook controls the margins (although you switch between several sizes in the Nook settings).

The Barnes & Noble 'Nook Kids' fixed layout format is very non-standard, requires a non-disclosure agreement from Barnes & Noble, and is unlikely to be supported by Jutoh; but regular reflowable Epubs are fine on the Nook.

To test your files using the Nook Android app, use a file manager app to copy the Epub file to the Nook/My Documents folder on the memory card. The book will then appear when you next run the Nook app. On the PC version of Nook, go to **My Stuff** and then **Add Item**, and add your book.

Kobo

Kobo uses the Epub format; again, you can get your books on their site via Smashwords, or directly via the Kobo Writing Life site. Kobo has free apps for most smartphones, tablets and desktop operating systems, and sells its own ebook readers.

At the time of writing there are no known issues with Kobo's Epub implementation that require special consideration. Conveniently, Kobo uses the same fixed layout Epub file format as used by Apple's iBooks.

When generating for Nook, switch off *Generate iBooks XML* in your Epub configuration or the file may be rejected. It's not clear whether the XML file can be included in iBooks-compatible fixed layout Kobo books.

It's difficult to test ebooks with the desktop Kobo reader applications (on Mac or PC) since they don't accept arbitrary files on your hard disk. However, the Android Kobo application has an option for importing local content, so once you have the file on your Android device (for example using file transfer, Dropbox, web site, or email), you can then view it using Kobo.

Diesel eBook Store

Diesel uses a variety of formats, including Mobipocket and Epub; you can get your books on their site via Smashwords. At the time of writing there are no known issues with Diesel's Epub implementation that require special consideration.

Lulu

Lulu uses the Epub format and combines the advantages of print-on-demand with ebook publishing. There are a couple of considerations that we are currently aware of:

- You need to have more than one chapter in the book, or Lulu will complain about the table of contents.
- You should switch off *Optimize for iBooks* or *Generate iBooks XML* so that Lulu doesn't

complain about “unmanifested files” – in iBooks mode, Jutoh adds the file `com.apple.ibooks.display-options.xml` in the folder `META-INF` inside the Epub. So try clearing this setting in your configuration, to remove this file. Also check that `iTunesMetadata.plist` hasn't been added by iTunes – if so, compile the file again.

- The author metadata needs to be output to Epub with `opf:role` set to ‘aut’, and the date metadata needs to have `opf:event` set to ‘publication’, or Lulu will complain. From Jutoh 1.57, this is done automatically if they are not already set, but you can adjust these values using the ‘...’ buttons next to each item of metadata.

Sony Reader Store

Sony Reader Store uses the Epub format; you can get your books on their site via Smashwords. At the time of writing there are no known issues with Sony’s Epub implementation that require special consideration.

Smashwords

Smashwords is very popular with authors, especially as it has distribution deals with other major ebook platforms in addition to selling them directly from the Smashwords site in multiple formats. So if you want to be listed on sites that you can’t upload to on your own, and/or want to save yourself the hassle of submitting to multiple sites, this is great.

You submit a file in Microsoft Word format, so you need to do that extra conversion step in OpenOffice.org Writer or Microsoft Word after generating an OpenDocument file destined for Smashwords. Note that Microsoft Word creates a more compact file.

Smashwords will take your Word file and pass it through their ‘Meatgrinder’ program to convert it into the various formats supported by Smashwords (Epub, Mobipocket, HTML, PDF and more). The conversion is pretty good most of the time, but you may find that the output is not quite as good as if you generated the file directly using a program such as Jutoh.

When you create a Jutoh project, a “Smashwords OpenDocument” configuration is added in addition to “OpenDocument”. The only difference between these is that the Smashwords variant has the *Special index formatting* and *Special footnote formatting* properties disabled, since Meatgrinder doesn’t like the special formatting associated with these options. So instead of using special fields, Jutoh will generate the index and footnote text in full.

There are two methods for helping Meatgrinder create a NavMap from the word processor document:

1. Create a linked table of contents page, which Jutoh will do automatically, or you can build your own. Don’t use Word or OpenOffice’s automatic table of contents generation facility since Meatgrinder doesn’t like field codes.
2. Start each section with the word “Chapter”.

Please see the [Smashwords Style Guide](http://www.smashwords.com) at www.smashwords.com; Jutoh will help you conform to them but some aspects you will have to take care of yourself, such as careful use of text size, sparing use of empty space and consistent heading style usage. Much of what the Smashwords Style Guide says can be used when working with Jutoh, such as advice on use of indentation, paragraph spacing, images, and so on.

Recently, Smashwords has started allowing authors to upload Epub files. However, this is only used for

delivery of the Epub format and you still need to upload Word files for the other formats.

See also [Chapter 10: Troubleshooting Your Book](#) for tips on dealing with Smashwords submission problems.

Your own web site

Of course, there's nothing to stop you uploading Jutoh-generated files to your own web site using an FTP client such as FileZilla. If you're making them available for free, there's not much else to do except upload the files in different formats and add links to your web site. Or, you could simply link to the files on other platforms such as the Kindle store or Smashwords.

If you want to make your books commercially available, you could use a service such as Plimus, which will serve files up to your users after payment. The files won't be encrypted, but you can add a paragraph to the title page to request that people do not redistribute the file; this should discourage some piracy. A little bit of piracy may actually be a good thing in spreading the word about your books, and in my opinion, there will always be a majority of law-abiding citizens prepared to pay! Besides, determined pirates will crack encryption or scan or retype books. And offering unencrypted books can be a selling point, since customers generally hate encryption and Digital Rights Management since it restricts how the product can be read and stored. If you're determined to encrypt your books, simply use a store such as Kindle, Smashwords or iBooks.

Caveats about using multiple distribution platforms

You might think it was obvious that the more platforms you sell to, the better. However, there are some wrinkles. If one platform sells your book at a lower price than another, then you can find the other platform price-matching; so you effectively trigger a price war with yourself, hurting your margins. (On the other hand, if you want to sell a book for the smallest possible price on Amazon, you might use this to your advantage: have it available for free on other platforms, so Amazon price-matches.)

Also, if you use Smashwords to target Kindle, for example, you can't then sell the identical edition on Amazon directly. Why would you want to do that? Well, Smashwords doesn't always produce as good an ebook file as if you created it directly with a tool such as Jutoh, so you might want to handle some sites yourself, and have Smashwords distribute to the remaining ones.

If you want to take advantage of Amazon's free ebook promotions, you need to sell it exclusively on Amazon – an annoying restriction, but the promotions can be very worthwhile for visibility and collecting reviews.

Summary

In this chapter, we've explored the differences between the major ebooks formats, and we've looked at the most significant distribution platforms, and their pros and cons. Next, we'll try to give some general advice on how you might market your ebooks.

Chapter 17: Marketing Your Book

by Harriet Smart

Your book exists. You have toiled over it – now you need people to know about it. Easier said than done. There are a lot of people shouting and waving their books out there. How are people going to know about you and what you have written?

Step 1: Describe your book

Of course you know what your book is about. But can you describe the contents briefly and in an understandable and enticing way? Look at the blurbs on the back of printed books or the descriptions on Amazon and see how it is done.

Here's one for a Young Adult novel by Michael Pryor:

"Aubrey Fitzwilliam is the son of a prominent ex-prime minister. He's also brilliant at magic, but he's stuck at military school. At least he has his best friend, George, there to back him up. George would follow Aubrey anywhere – and with Aubrey's talent for thinking up daring schemes that will get them both in trouble, that's no easy thing to do. At a royal hunting party, the boys discover a golem, a magical creature built to perform one task: to kill Prince Albert. Aubrey and George are hailed as heroes for foiling the murder attempt – but who sent the golem, and why? Aubrey is far too curious to let the authorities handle this one, and he and George start investigating..."

Here is one for Phil Rickman's latest novel, *The Bones of Avalon*:

"It is 1560, and Elizabeth Tudor has been on the throne for a year. Dr John Dee, at 32 already acclaimed throughout Europe, is her astrologer and consultant in the hidden arts... a controversial appointment in these days of superstition and religious strife. Now the mild, bookish Dee has been sent to Glastonbury to find the missing bones of King Arthur, whose legacy was always so important to the Tudor line. With him – hardly the safest companion – is his friend and former student, Robert Dudley, a risk-taker, a wild card... and possibly the Queen's secret lover. The famously mystical town is still mourning the gruesome execution of its Abbot, Richard Whiting. But why was the Abbot really killed? What is the secret held by the monks since the Abbey was founded by Joseph of Arimathea, uncle of Christ and guardian of the Holy Grail? The mission takes Dee to the tangled roots of English magic, into unexpected violence, necromantic darkness, the breathless stirring of first love... and the cold heart of a complex plot against Elizabeth."

This is the Amazon description for a very famous self-help book:

"THE 7 HABITS OF HIGHLY EFFECTIVE PEOPLE is recognised as one of the most influential books ever written. In this seminal work, Stephen R. Covey presents a holistic, integrated, principle-centred approach for solving personal and professional problems. With penetrating insights and pointed anecdotes, Covey reveals a step-by-step pathway for living with fairness, integrity, honesty and human dignity – principles that give us the security to adapt to change, and the wisdom and power to take advantage of the opportunities that change creates. Translated into thirty-four languages and with phenomenal sales, THE 7 HABITS OF HIGHLY EFFECTIVE PEOPLE has been the key to the success of legions of business leaders and individuals the world over."

And finally the description of a new biography of Georgette Heyer by Jennifer Kloester.

"Georgette Heyer remains an enduring international bestseller, read and loved by four generations of readers and extolled by today's bestselling authors. Despite her enormous popularity she never gave an interview or appeared in

public. Georgette Heyer wrote her first novel, *The Black Moth*, when she was seventeen in order to amuse her convalescent brother. It was published in 1921 to instant success and ninety years later it has never been out of print. A phenomenon even in her own lifetime, to this day she is the undisputed queen of regency romance. During ten years of research into Georgette Heyer's life and writing, Jennifer Kloester has had unlimited access to Heyer's notebooks and private papers and the Heyer family records, and exclusive access to several untapped archives of Heyer's early letters. Engaging, authoritative and meticulously researched, *Georgette Heyer: Biography of a Bestseller* offers a comprehensive insight into the life and writing of a remarkable and ferociously private woman."

All of these are between 150 and 190 words long and yet they all manage to say an awful lot about the book. They are little masterpieces of copywriting and you should strive to create a little masterpiece for your own book. It is not easy, but it is worth taking the time to do – because then you will have a ready-made and persuasive description of your book readily to hand.

When writing, try to remember what the reader is looking for and emphasise those elements. In the case of a novel you want to suggest to them that this is a good story with intriguing characters and lots of possibility for drama. You will notice that both the novel descriptions contain questions – the central meat of a drama is a question. Will the prince be able to save the princess? Will the heroine be able to overcome the obstacles and find the man of her dreams? Make sure you draw attention to the sexiest, shiniest parts of your novel: the glamorous setting, the dreadful things at stake or the potential for deep emotional involvement.

Non-fiction descriptions are a little more utilitarian but they are still in the business of making an offer the reader can't refuse. They emphasise the authority of the writer and the unique angle that the book offers on a topic that is of general importance and interest. Notice how words like "offers" or "reveals" are used to suggest that the book is treasure-chest of useful and authentic information.

One way to look at such descriptions is to imagine them as a slice from the beautiful cake that is your book. You are not telling them all the ingredients or how you laboured to mix them up, but merely presenting the overall effect. You want them to eat the whole cake, of course, so give them a slice that makes them hungry for more, in no more than 200 words.

Step 2: Be able to talk confidently about it

Writing your book description and studying other book descriptions is a very good way to see what it is that makes people interested in books, what excites them. You will have a much clearer idea of what your book is and who might be interested and indeed what is special about your book. The next thing to do is to refine that description even further – into a sentence or two you can use when you meet people and they ask about your book. The latest evidence suggests that word of mouth is one of the most important drivers of ebook sales. Word of mouth begins with a conversation, be it virtual or in real life. When people ask you what your book is about, you need to have an answer ready. Even better, have several answers ready to suit the sort of person you are talking to.

Never apologise for your book – be bold and talk it up. Share the passion you felt in writing it. Don't say "Oh, it's just a romance novel" say "It's a love story inspired by a set of old letters I found in a thrift shop. It made me cry when I was writing it." Don't say: "It's a rehash of some research I did on stress" – but "It's a book about how you can manage your stress levels."

Now I am not saying this is easy. It isn't. Writers are naturally shy and retiring and like to hide behind a wall of comforting text. But to get people to know your book exists you have to have a pithy description at your finger tips.

Practice saying in private and aloud, "My book is about..." Refine what you say. Evolve it into a neat

phrase that you can say as easily as your name.

Books and blogs on pitching and log-lines for the screenwriting industry have lots of helpful hints on expressing the idea of a thing in a succinct and appealing way.

Step 3: Find your Special Subject – be an expert or an enthusiast

The next question to ask yourself is: what is your area of unique knowledge and how is it connected to the book you have written?

Why is a special subject important? It gives you a voice: it is an excuse to speak, be it on an online forum, a blog, in the local newsletter, even to the person at the bus stop. You are no longer just someone with a book to sell. You are instead an interesting person who happens to have written a book which might be equally interesting.

How do you find your special subject? If you have written a collection of gluten-free bread recipes because you have a gluten allergy then it is easy to see you are well qualified to take gluten-free cooking as your special subject. Historical novelists have a head start here as they are usually deeply involved in historical research and have a burning interest in the past – that’s what drove them become historical novelist in the first place. They are often de facto experts.

However, sometimes it can be difficult to find your specialist subject. Perhaps you are writing contemporary fiction or a memoir and it doesn’t seem at all clear. Your subject seems too general. Don’t despair – ask yourself some more questions and try to tease out your special subject.

For example, look at the setting – does your work have a regional flavour? Is your romance set in France? Why did you choose France? Is it because you live there and know it well or because you love the very idea of France, all that style and elegance. If the first, think: “Living in France – all you need to know – notes from an expat” or if you don’t know France that well except through research and imagination, you can go the “I Heart France” route, and explore the style and culture of the country. Chances are that people who also love France in the same way may be interested in reading your wonderfully romantic love story set in their favourite country.

Both of these approaches give you plenty of angles for blogging, participating in relevant forums and generally getting the word out there.

Step 4: Build a platform

Get yourself known online. Gather a tribe. The word is that traditional publishers are making it a stipulation that newly signed authors already have a blog or are at least prepared to start one. Others are suggesting that their existing authors get onto Twitter. For an indie author an online presence of some description is even more essential.

The good news is that nowadays you don’t need an elaborate or expensive website with flashing graphics. In fact I would advise strongly against a static, classic web page that is difficult to maintain and update. What you need is a simple dynamic site where you can talk about your special subject and hopefully create some interest about your writing. Fortunately there are lots of free, very easy to use blogging platforms that make the process a whole lot less painful than it used to be.

These are the big three:

- www.wordpress.com

- www.blogger.com
- www.tumblr.com

The secret to successful blogging is to have frequently updated, quality content. It is hard work and it takes some time to pay off but it is also good writing practice. Preparation helps a lot so focus on your special subject and brainstorm out a list of topics for future blog posts. If there is something in the news that links to your special subject seize the moment and blog about it. Make sure each post you create is well tagged so that people can find it easily. And keep everything as fresh and interesting as possible – post videos, pictures and make podcasts just to keep everything lively. Have a blog roll of other blogs that connect to your special subject and engage and comment on those blogs. You will find this drives people back to your blog if your comments are relevant and not overly self-promotional. Make sure you have clear links to your books on the site so that if you have written a good piece, people can find out more about you and your writing easily – but again the key is to make the blog more about the content than the promotion. You can also create an author's page on Facebook and invite your friends to become fans. There it is all about engagement with users.

Now you have a blog. Where do you find readers?

One place to look is on the book-lover forums – for example Kindle Boards, Amazon reader forums. Again the message here is do not over-promote – become part of the community. Share your own enthusiasm and participate in the conversations that are taking place. People are very turned off by relentless self-promotion. It pays to be discreet.

And then we have Twitter. Twitter gets a lot of flak. Its very name seems to suggest triviality but in fact it is a very useful tool in building an online presence. It is easy to find like-minded people supplying you with support and lots of information, especially about indie publishing and marketing. It is also a great book promotion tool if used correctly. Once again the advice is: be subtle. Do not go on and on about your book. Try to be interesting and supply interesting information related to your special subject. Find the people who are interested in your special subject and follow them.

There is still a role for traditional media in marketing your book, be it a local newspaper or a special interest magazine. They are looking for stories, but once again be creative. Find a hook and an angle that is fresh. Create a story from your special subject rather than pitching a piece about an indie-published novel.

Another area worth exploring is, can you do an event? Is there a tie-in with a local event that you can devise and pitch to the organisers? Would local societies be interested in hearing about your special subject? They may become willing readers if you give a good performance.

This is barely scratching the surface of what you can do. Often these things don't cost money but they do cost time and imagination. Think laterally and be creative. Allow time to do the job properly and don't be discouraged if it takes time. Overnight best sellers are black swans – exceptional events. But there is a lot you can do to help your beloved book along the way.

Further tips

➔ Since ebooks don't always have a page count that will be displayed alongside your book description, you might like to include one in your description so that people know they will be getting value for money. Use the book word count in the Document Properties dialog and divide by a reasonable word-per-page figure, say 600.

- ➔ To avoid separating your book from the description(s) you write, you can store your book description, and perhaps a publicity plan, in a text document under the ‘Scraps’ folder in your project. This information won’t be included in your book.
- ➔ You should consider getting an ISBN number for your book – this is necessary if you want to get on the premium Smashwords catalogue, for example. You can buy a block of ISBNs yourself or obtain some from Smashwords or other book distribution site.
- ➔ Consider getting a small number of your books printed using low-cost print on demand and perhaps a service that will undertake cover design as well as organising printing. You can then use it as a sales tool, sending them to journalists and bloggers, selling them at events, and even donating them to your libraries to raise your profile.
- ➔ Consider promotional give-aways. Giving your book away can be a very effective tool for getting publicity and reviews. On Amazon, you can give your book away for a few days, so long as your book isn’t for sale via a different retailer. Often a free book will rise to the top of the free book charts for a particular genre, giving it visibility that it may never have had before.

Essential reading

[Marketing Your Book: An Author’s Guide](#), by Alison Baverstock

[The Smashwords Book Marketing Guide](#), by Mark Coker

This book, [Chapter 16: Understanding Ebook Formats and Platforms](#)

Summary

We’ve covered some common-sense approaches to publicising yourself and your books. If you have further ideas, do write in and tell us so we can include them in a future edition of this book.

We’ve also come to the end of the book – I hope you enjoyed it; if so, do pass the book around to your friends and colleagues. If you don’t already have a copy of Jutoh, why not visit www.jutoh.com and give the demo a whirl. We support Windows, Mac and Linux, and one purchase is good for all platforms so you don’t have to worry about migrating to another operating system later. We’re also quick to respond to technical support requests, and even if you haven’t yet bought a copy of Jutoh, we’re happy to discuss your needs.

We wish you the best of luck in the exciting world of ebook publishing!

Glossary

***Ad hoc* styling**

This is the application of a combination of individual attributes such as bold, centering and so on, to an existing span of text or paragraph without defining those attributes as part of a named style. The result of using *ad hoc* styling is the creation of automatic styles (uniquely-named styles) and, when used widely, problems in maintaining consistency or applying certain Jutoh features such as table of content creation that search for specific named styles. Minimize *ad hoc* styling by editing and applying existing named styles, and creating new ones. *Ad hoc* styling can also be referred to as ‘local’ styling.

Application

You can ‘apply’ styles to paragraphs, and text spans, and lists. This means giving your content some formatting attributes, such as centering or bold. It is best to apply named styles from the *style sheet*.

Asset

An ‘asset’ in Jutoh terminology is a fragment of HTML used either as a template to help Jutoh write a book section HTML file, or as some other part that is inserted into the template. Assets are associated both with individual documents, and with the project as a whole. A document’s assets can be edited using **Format | Asset Editor**, and the project assets via the Assets page in the Project Properties dialog. Most users will not need to edit assets. See the Jutoh Plus guide for more details.

Automatic style

An automatic style is a named character or paragraph style that Jutoh imports or generates when *ad hoc* styling is applied to a span of text or a paragraph. An automatic style contains one or more ‘+’ symbols. These styles are not usually shown in the style sheet because they are quietly maintained with each document in the project. You should minimize your use of automatic styles because it makes maintaining document consistency harder.

Character style

Named character styles are applied to spans of text within a paragraph. For example, the “URL” style is defined by default, and applies blue and underlining to text. You can view and edit character styles using **Project Properties | Edit** and clicking on Styles. Then click on Character styles in the drop-down box under the list of styles.

You can apply character styles by right-clicking on selected text, then choosing **Styles | Character Styles** in the context (popup) menu. You can also use keyboard shortcuts and the **Favourites** menu – see [Customising the user interface](#).

Compiling

The process of creating (generating, building) an ebook from a Jutoh project.

Configuration

A configuration, in Jutoh terminology, is a group of properties that together determine how an ebook will be generated, including file format, maximum image size, style sheet to use, cover design to use, and so on. Initially, Jutoh has one configuration per format; however, you can create as many configurations as you wish. For example, you might have a general “Epub” configuration, and also an “iBooks Epub” configuration which contains iBooks-specific copyright information and cover design.

Context menu

A menu that is shown by right-clicking over a window (Windows and Linux) or control-clicking (on the Mac). A context menu can also be shown by pressing the context key if available on your keyboard. Notable context menus are those associated with the project outline, the content editor, and the formatting palette.

Dialog

A dialog is a window that appears after invoking a particular command; for example, the Project Properties dialog, or the Preferences dialog. Most, but not all, dialogs have to be dismissed before you can work with your project.


Document

A Jutoh project is comprised of documents; mostly you will be working with ‘book section documents’, perhaps one per chapter, one for the title page, another for acknowledgements, and so on. There are other kinds of document, such as the embedded font document, text document, image document, URL document and more, but most users will only create book section documents. If you have imported an existing file, Jutoh may have created all the documents you need. Otherwise, you can add more with the **Documents** toolbar button or commands on the **Document** menu. All documents in a project are stored in the same Jutoh project file.

Epub file

This is the industry-standard, open file format for ‘flowable’ ebooks; it uses XHTML for the content. EPUB is defined in detail at idpf.org. Version 2.0 of the standard is currently the most used, and is generated by Jutoh. All ebook readers apart from Amazon’s Kindle can read Epub files. Epub readers usually have quirks of their own, and so some optimization of Epub can be required for each platform.

Favourite

There are two kinds of favourite in Jutoh – the dominant meaning used in the documentation is favourite style, command or symbol, that can appear on the **Favourites**  toolbar button or in the Favourites tab of the Formatting Palette. These are defined using the command **View | Customize Shortcuts**. The other, less used, meaning is a favourite project file as listed on the Favourites tab on the Organizer palette. When you open a project, it is added to these favourites for quick access later.

Keyboard shortcut

A key combination for applying a command or style, or inserting a symbol. There are two kinds of shortcut in Jutoh – primary shortcut (such as **Ctrl+B**) and secondary shortcut (such as **Ctrl+.**

Ctrl+T). A secondary shortcut allows a greater number of shortcuts to be defined by using the **Ctrl+.** prefix.

Fixed layout ebook

A fixed layout ebook has a set number of pages and each page has a layout that cannot be altered by adjusting font size or other variables, in contrast with a *reflowable ebook*. A fixed layout book will be scaled to fit the display, and there may be flexibility about whether double-page spreads or single pages are displayed depending on device orientation. This style suits certain kinds of book such as children's picture books, photography books, and comics. The main variants of fixed layout file format are Epub 3, Kindle KF8, and iBooks. A future version of Jutoh will support the creation of fixed layout books.

Metadata

The description of the book, such as title, author, publication date, and so on. Metadata is edited in the first tab of the Project Properties dialog.

Mobipocket file

This is the native file format for Amazon's Kindle books, and uses the MOBI or PRC file extension. Mobipocket files are created either using Mobipocket Creator, or (in Jutoh's case) using Amazon's 'kindlegen' application, which takes a subset of the Epub format as input. The Mobipocket file format is not as capable as Epub, but Kindle is the single most popular ebook platform by some margin.

ODT file

Short for OpenDocument Text file, this is the native format of OpenOffice.org which is a free download and can be used as a converter between Jutoh and other popular word processor file formats. Recent versions of Microsoft Word can also open ODT files. Jutoh's recommended file import format is ODT, and Jutoh supports ODT book export.

Paragraph style

Named paragraph styles are applied to whole paragraphs, and are important in enforcing consistency throughout a project. For example, the Normal style is defined by default. You can view and edit paragraph styles using **Book | Project Properties** or **Edit** on the toolbar and clicking on Styles. You can apply paragraph styles using the drop-down list in the formatting toolbar, or by right-clicking on selected text, then choosing Styles styles in the context (popup) menu.

Reflowable ebook

A reflowable ebook does not have a fixed number of pages since pagination is dependent on display size and user customisations, such as font size and device orientation. All Jutoh ebooks are currently reflowable, but support for fixed layout ebooks will be added.

Style sheet

Usually used to describe the Jutoh style sheet, a collection of paragraph, character and list style definitions. A Jutoh project can have multiple style sheets. Jutoh style sheets are only indirectly related to CSS sheets, and you cannot import from a CSS sheet. However you can export Jutoh

style sheets for import into other projects.

Appendix A: Installing Jutoh

This appendix describes how to install Jutoh and associated third-party software on the main supported platforms.

Note that you can check for updates and install new versions using **Check for Updates** on the **Help** menu.

Installing on Windows

Jutoh

Download the setup file from www.jutoh.com/download.htm, and run the installation program. This will create a program group called **Anthemion Jutoh x.y** (or other name if you have chosen a different name). This folder can be accessed via the **Start** menu under Programs. The folder contains shortcuts to the program, ReadMe, and Uninstall program.

You can uninstall Jutoh either by double-clicking the Uninstall Jutoh icon in the Jutoh group, or by invoking the Windows Control Panel, double-clicking on Add/Remove Programs, and then choosing the Anthemion Jutoh item.

There is also a [PortableApps](#) version which you can download instead of using the setup file. The PortableApps installer uses a version of Jutoh that is not tied to the registry and so can be easily run off an external drive. (Jutoh also has its own way of running from external drives so if you have installed the regular version of Jutoh, you can use the Mobile Preferences dialog invoked via **View | Mobile Preferences** to install Jutoh onto an external drive.)

Kindlegen

You will need to download and install Amazon's Kindlegen if you wish to create Mobipocket (Kindle) files.

In the Jutoh Preferences dialog under Helpers, or in the Setup Wizard, click on **Help Me Install Kindlegen**. Then, as per the instructions for Windows above, click on **Download and Install** to get Jutoh to perform the whole process automatically.



Kindlegen Installation dialog

If **Download and Install** doesn't work for any reason, download the zip file manually, click **Browse** to set the location of the zip file, and click **Install**. If you wish to install KindleGen manually instead, perform the following installation steps.

Download the zip file from www.amazon.com/kindlepublishing and unarchive it into a suitable folder, such as `c:\Kindlegen`. Then set the path of the `kindlegen` program in the Helpers page of the Preferences dialog. An example path might be `c:\Kindlegen\kindlegen.exe`.

If KindleGen isn't working within Jutoh, first check that the path in the Helpers dialog refers to a file that exists. If that's not the problem, perhaps Java isn't installed. Go to www.java.com and download and install Java.

eSpeak

If you wish to encode MP3 files with the eSpeak text-to-speech system instead of using the built-in SAPI voices, you can download the installer from espeak.sourceforge.net/download.html and run it. Then configure Jutoh for using eSpeak in the Speech tab of the Jutoh Preferences dialog.

LAME

If you wish to encode MP3 files, you will also need the LAME MP3 encoder. Download it from lame.sourceforge.net/links.php#Binaries and set the full path of the LAME executable (`lame.exe`) in the MP3 tab of the Jutoh Preferences dialog.

Installing on Mac OS X

Jutoh

Download the Mac version of Jutoh from www.jutoh.com/download.htm, and open the `Jutoh-x.y.img` file. The disk image will be mounted automatically, and you can then copy the Jutoh folder to a suitable place on your hard disk such as the `Applications` folder. You can drag the Jutoh icon to the dock for quick access.

You can uninstall Jutoh by simply dragging its folder to the trash can.

Kindlegen

You will need to download and install Amazon's Kindlegen if you wish to create Mobipocket (Kindle) files.

In the Jutoh Preferences dialog under Helpers, or in the Setup Wizard, click on **Help Me Install Kindlegen**. Then, as per the instructions for Windows above, click on **Download and Install** to get Jutoh to perform the whole process automatically.

To install Kindlegen manually, download it from www.amazon.com/kindlepublishing; at the time of writing it is bundled as a zip file, which you can unarchive to any suitable folder such as `/Applications/Kindlegen`. Then set the path of the `kindlegen` program in Jutoh's Preferences dialog, under Helpers. For example, the path might be `/Applications/Kindlegen/kindlegen`.

If Kindlegen isn't working within Jutoh, first check that the path in the Helpers dialog refers to a file that exists. If that's not the problem, perhaps Java isn't installed. You can check this by opening a terminal window and typing `java`. If there's an error message that indicates that the command is not found, go to www.java.com and download and install Java.

eSpeak

If you wish to encode MP3 files with the eSpeak text-to-speech system instead of using the built-in Apple Speech Manager voices, you can download the zip file from espeak.sourceforge.net/download.html. Once you've unzipped the files, you need to copy the `espeak-data` files to either your home directory, or to `/usr/share`. So assuming you downloaded the zip file to, say, `/tmp`, you might then do this in a terminal window:

```
cd /tmp
unzip espeak-1.37.zip
cp -r espeak-1.37 /Applications/espeak-1.37
cp -r espeak-1.37/espeak-data ~/espeak-data
# Clean up
rm -f -r espeak-1.37
rm espeak-1.37.zip
```

Now you can configure Jutoh in Speech Preferences to use the binary file `/Applications/espeak-1.37/speak`.

LAME

If you wish to encode MP3 files, you will also need the LAME MP3 encoder. You can get a package file containing LAME for Mac from the Thalictrum web site, at www.thalictrum.com/index.php?pageid=2.

Run the `.pkg` file that appears on the desktop. The `lame` command will now be available, and you need to set `/usr/local/bin/lame` as the executable in the Jutoh MP3 Preferences page.

Installing on Linux

Jutoh

Download a suitable file from www.jutoh.com/download.htm. There are versions for several methods of installation (tarball, Debian package and RPM), and also 32-bit and 64-bit variants.

If you are using a Debian or Ubuntu-derived version of Linux, you can use the `.deb` archive. If you are using Fedora, Mandriva, SuSE Linux, PCLinuxOS, you can use the `.rpm` archive.

To install the generic tarball version, unarchive `Jutoh-x.y-i386.tar.gz` to a temporary location, such as `/tmp`. Then run the script `installjutoh` and follow the instructions. This will copy the application files and launch script `jutoh` to locations of your choice. If you want to install it system-wide, log in as root first or use `sudo`. So you would type something like:

```
cd /tmp
tar xvfz ~/Downloads/Jutoh-1.01-i386.tar.gz
sudo ./installjutoh
```

To install the `.deb` version, use a command like this:

```
sudo dpkg -i jutoh_1.01-i386.deb
```

To install the `.rpm` version, use a command like this:

```
sudo rpm -i jutoh-1.01_i386.rpm
```

Now you should be able to run Jutoh with an icon installed in the desktop environment's menu, or by running `jutoh` from a terminal.

You can uninstall Jutoh by running `uninstalljutohx.yz` if you used the tarball installation, or `dpkg -r jutoh` for the Debian installation, or `rpm -e jutoh` for the RPM installation.

If you need to invoke Jutoh directly (without using the launcher script), either launch them from the appropriate application directory or set the environment variable `JUTOHDIR` to the respective application directory.

On rare occasions, Jutoh may crash on startup if there is a conflict with the current KDE or Gnome desktop theme. Changing the theme should make the problem go away.

Kindlegen

You will need to download and install Amazon's Kindlegen if you wish to create Mobipocket (Kindle) files.

In the Jutoh Preferences dialog under Helpers, or in the Setup Wizard, click on **Help Me Install Kindlegen**. Then, as per the instructions for Windows above, click on **Download and Install** to get Jutoh to perform the whole process automatically.

To install Kindlegen manually, download it from www.amazon.com/kindlepublishing; at the time of writing it is bundled as a gzipped tar file, which you can unarchive to any suitable folder such as `~/Kindlegen`. For example:

```
mkdir ~/Kindlegen
```



```
cd ~/Kindlegen  
tar xvfz ~/Downloads/kindlegen_linux_2.6_i386_v1.2.tar.gz
```

Then set the path of the `kindlegen` program in Jutoh's Preferences dialog, under Helpers. For example, the path might be `/home/fredbloggs/Kindlegen/kindlegen`.

If Kindlegen isn't working within Jutoh, first check that the path in the Helpers dialog refers to a file that exists. If that's not the problem, perhaps Java isn't installed. You can check this by opening a terminal window and typing `java`. If there's an error message that indicates that the command is not found, go to www.java.com and download and install Java.

eSpeak

If you wish to encode MP3 files with the eSpeak text-to-speech system instead of using the built-in SAPI voices, you can download the installer from espeak.sourceforge.net/download.html and run it. Then configure Jutoh for using eSpeak in the Speech tab of the Jutoh Preferences dialog.

LAME

If you wish to encode MP3 files, you will also need the LAME MP3 encoder. You can get and install LAME using your favourite package management software. For example:

```
sudo apt-get install lame
```

Or, you can get a binary or the source code from lame.sourceforge.net.

After installing, the `lame` command will now be available, and you just need to set `lame` (no full path required) as the executable in the Jutoh MP3 Preferences page.

How to use Jutoh with an external drive

Overview

Jutoh helps you access your data on a mobile drive such as a USB flash memory drive. You can also run Jutoh from a mobile drive, so that all Jutoh settings are stored on the drive and not on the computer. This is convenient if you will be writing on multiple machines – perhaps home and work – and you don't want to install Jutoh permanently on any one machine.

Note: mobile drives are easily lost and they can fail, so please remember to back up your files regularly to another disk.

These are the different combinations that are possible:

1. **Not mobile:** running Jutoh from your computer as normal, storing files on your hard drive. Application settings, such as templates, icons, window sizes, and registration information, are also stored on your computer.
2. **Data mobile:** running Jutoh from your computer as normal, but storing your project files on a mobile drive. Application settings are stored on your computer.
3. **Settings mobile:** running Jutoh from your computer, but storing Jutoh's settings on a mobile drive.
4. **Fully mobile:** running Jutoh from the mobile drive, and storing your files and applications settings on the mobile drive.

In scenarios (2), (3) and (4), you can use your data on different computers and different types of computer. You can be working on a Mac one day, a Linux machine the next, and Windows the day after that. (Of course, you can still do this with (1) but it will be more awkward to copy files between machines.)

With scenario (4) – ‘fully mobile’ – you can store the Jutoh application and its data files on the mobile drive, as well as your own projects. Jutoh can install itself onto the mobile drive, for Windows, Linux and Mac operation, and no components of Jutoh will need to be stored on the computer’s hard drive.

In the next section, we’ll see how to use a mobile drive for storing just your data.

Using a mobile drive for data

Jutoh can use the current mobile drive when loading project files.

To have Jutoh prompt you for a drive name when starting, go to the Mobile Preferences dialog, select or type a mobile drive name, and check **Store your data on the external drive**. If you want the drive name to be stored between sessions, check **Remember between sessions**, but it is recommended that you don’t check this in case the drive letter or name changes (especially when using different computers).

Jutoh stores documents in the `Documents` folder on the mobile drive, by default.

You may be wondering how Jutoh opens recently edited files, if the drive name and even the operating system changes between Jutoh sessions. Jutoh does this by saving the last known external drive when it quits, so when it runs again, it can convert the old file names to new ones if it turns out that they were relative to the external drive.

Using a mobile drive for settings

If you use the mobile drive for storing settings, you can keep important information mobile such as your registration key, auto-replace customisation, cover design templates, and other data that Jutoh makes use of. This is independent of your own project files.

Go to the Mobile Preferences dialog, and in the Portable Settings section, check **Store all settings on an external drive**. You will be asked to restart the program. When Jutoh runs again, you will be prompted for a drive, and any new settings will be stored on that drive. Your registration information will be copied to the drive, but no other settings will be copied. The new settings will be stored in folder `Application Data/Jutoh` on the external drive. If you wish to copy previous settings, see Jutoh files for where to find the old settings.

Running Jutoh from a mobile drive

The most portable method of using Jutoh is to install the software on the mobile drive. If you do this, all settings will also be stored on the drive, as described in the previous section.

To install Jutoh to a mobile drive, go to the Mobile Preferences dialog and click **Install Jutoh on External Drive**. You will be presented with the Mobile Installation Wizard which will take you through the necessary steps. You can install Jutoh from the web, from the version you’re currently running, or from zip files you downloaded earlier.

You can install Jutoh for different operating systems, and they will all share the same application data files. The Windows version of the software is installed to `Applications/Jutoh/Windows/Jutoh`

x.yz, and other platforms are installed to similar paths but with an appropriate platform name in place of Windows.

Launching Jutoh on Windows

If you installed the Windows version from a Windows computer, a shortcut will appear on the mobile drive top-level folder. You can double-click that from Explorer to get started.

Launching Jutoh on Linux

The Linux version has a launcher script called jutoh-linux which uses a relative path to the actual binary, so when using it your current directory should be the drive itself.

You may find that you don't have execute permission on the external drive, particularly if the drive is formatted with a Windows file system such as FAT32. In this case, you need to mount the drive with different options, and you can do that by editing the file `/etc/fstab` as root. You should add a line that tells the system to use special options. Here's an example:

```
/dev/sdb1 /media/usbdisk vfat  
rw,shortname=mixed,uid=1000,gid=1000,user,auto,exec 0 0
```

To find out the device name and mount point (the first two entries in this file), insert your drive and when automounted, type `mount` in a terminal window. You should see an entry for the external drive. The `exec` option causes all files on the drive to be seen as executable, and `auto` causes the drive to be mounted automatically when the device is inserted.

Launching Jutoh on Mac

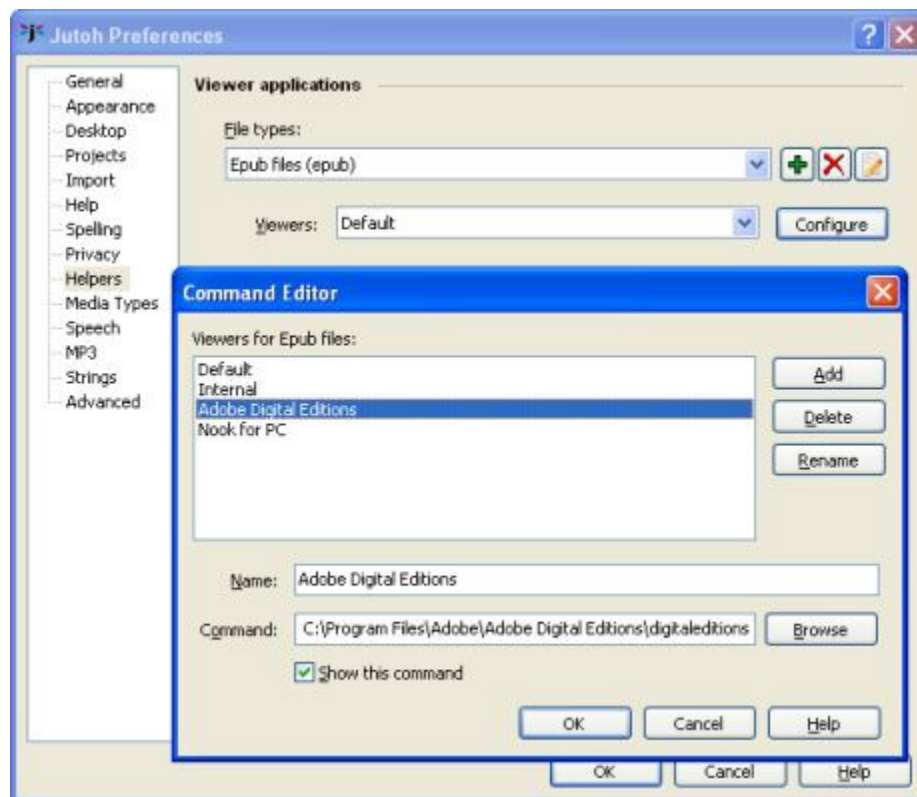
On Mac, there is no alias, so you need to navigate to the `Applications/Jutoh/Mac/Jutoh x.yz` folder and launch it from there.

Appendix B: Configuring Jutoh

There are many ways to configure Jutoh to suit your use of it, whether it's telling Jutoh how to launch helper applications, or changing behaviour such as automatically checking Epub files after creation. We'll describe the most important configuration options here, and you can find more by exploring the pages of the Preferences dialog.

Viewer applications

A 'viewer application' is simply third-party software that can display an ebook file that Jutoh creates. Examples include Adobe Digital Editions, Kindle for PC, and Kindle Previewer. If an application knows how to open a file that's passed to it, then Jutoh can run the application passing it the ebook file name, and the file will be shown in the helper application. You can set Jutoh up to know about as many viewer applications per file type (such as Epub) as you like. If you do this, Jutoh will show you a menu of available applications when you click on **Launch** after compiling an ebook. You can configure the applications using the **Helpers** page in the Preferences dialog, shown below:



Configuring commands for Epub

Here, we selected *Epub files (epub)* and clicked on **Configure**. To add a new application, click on **Add** and enter the application name and full command path. The **Default** application is always present and means, run the application currently associated with this file type by the operating system. If only one

application is defined for a file type, then a menu will not be shown when launching the application for that file type.

The following screenshot illustrates what happens when a Mobipocket helper for Kindle Previewer has been defined for Kindle Previewer, and the user clicks on **Launch**. The default viewer is Kindle for PC, so the user has a choice between running Kindle for PC or Kindle Previewer for the current Mobipocket configuration.

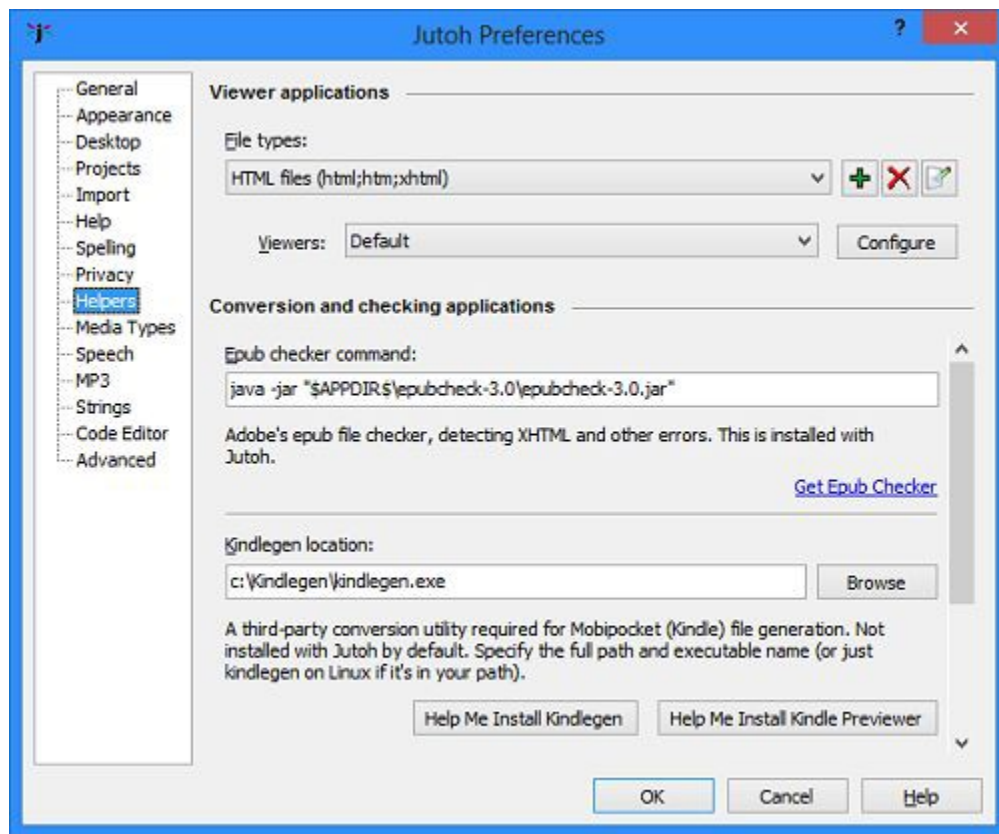


Clicking Launch with several viewer applications defined

Note that this mechanism relies on applications accepting file names on the command line; most do, but a few don't, such as the Nook viewer, and in these cases you will need to use the application's user interface to view the book. (You'll be glad to know that we persuaded Amazon to add command-line file name handling to Kindle Previewer!)

Conversion and checking applications

Jutoh uses a number of third-party applications to help it create and check books. The two Epub checker commands are already configured, but if you wish to create Mobipocket files, you will need to configure Kindlegen. These commands are specified in the **Helpers** page of the **Preferences** dialog.



Configuring Jutoh helper applications

When configuring the Java checker applications, you can use \$APPPDIR\$ to denote the folder in which the Jutoh application is found. You need to specify a full Java command, such as:

```
java -jar "$APPPDIR$\\epubcheck-1.1\\epubcheck-1.1.jar"
```

For the Kindlegen compiler, specify the full path of the Kindlegen executable on Windows and Mac, and just `kindlegen` on Linux. If you're not sure how to install or configure Kindlegen, you can click on **Help Me Install Kindlegen** in the Preferences dialog under Helpers, or in the Setup Wizard. The Kindlegen Installation dialog will help you either download and install Kindlegen, or install Kindlegen from a manually downloaded Kindlegen archive. On Windows, the Setup Wizard will also help you download, install and configure Kindle Previewer for Jutoh – which is much easier than doing it by hand!

Text-to-speech configuration

If you wish to generate speech files using Jutoh, you can select a text-to-speech engine in the **Speech** page of the Preferences dialog. Normally you choose Microsoft SAPI on Windows and the Apple Speech Manager on Mac, but you can also choose the Cepstral engine if you have a Cepstral voice installed, and eSpeak is another option. On Linux, only Cepstral and eSpeak are available. In the **Speech** page, you can choose and test the voice to use.

To configure the MP3 encoder, use the **MP3** page of the Preferences dialog and choose the location of the LAME executable.

See also [Appendix A: Installing Jutoh](#) for how to install eSpeak and LAME.

Customising shortcuts and favourites

Shortcuts and favourites give you quick ways to to execute commands, apply styles and insert symbols. This can save you from a lot of tedious mousing and clicking, especially when tidying up formatting in a long document.

Shortcuts

Jutoh allows you to customise the keyboard shortcuts used for:

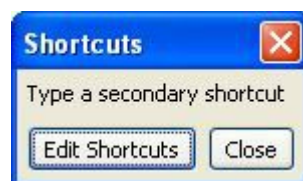
1. applying commands that you can find in the menubar;
2. applying named paragraph and character styles to the current paragraph or selection; and
3. inserting symbols or text into the active editor.

Jutoh defines two kinds of shortcut: primary and secondary.

A *primary shortcut* is a shortcut that you type directly, such as **Ctrl+O** to open a project file.

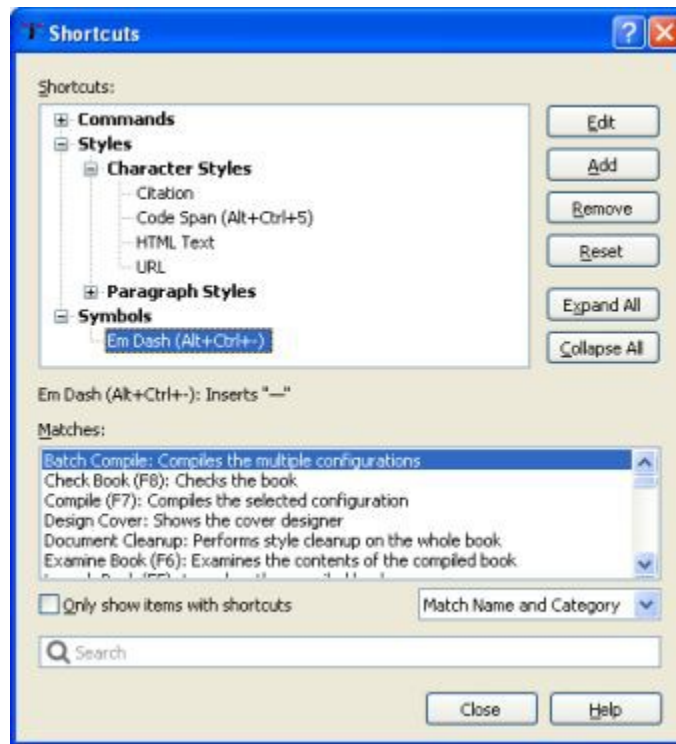
Because primary shortcuts are in short supply, you can also define *secondary shortcuts* that are prefixed with a primary shortcut. Jutoh defines **Ctrl+Period** to be the prefix for secondary shortcuts. So, for example, if you defined the secondary style shortcut **Ctrl+1** for “Heading 1”, you would type **Ctrl+Period Ctrl+1** to apply that style.

When you type the prefix shortcut, Jutoh shows a little window called the Secondary Shortcut Window.



The Secondary Shortcut Window

Now you can type a secondary shortcut and the window will disappear after the command is executed; or you can click on **Edit Shortcuts** to customise shortcuts. This will show the Shortcut Customisation dialog, from which you can view existing shortcuts, edit individual ones, or reset all shortcuts to their default values.

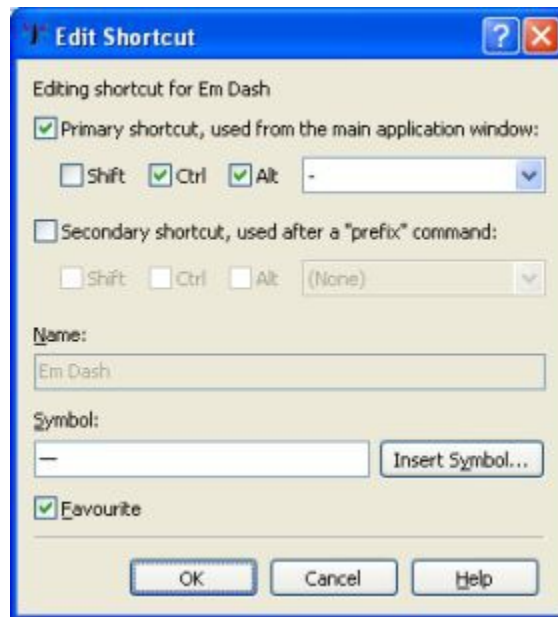


The Shortcut Customisation dialog

When you edit shortcuts, you'll see all the named paragraph and character styles for the currently-selected project (excluding automatic styles). If you make changes to the shortcuts for these styles, they will be saved with the project. In contrast, command and symbol shortcuts are global.

All available commands and styles (whether they have associated shortcuts or not) appear in the shortcut customisation dialog, so you don't need to add these. However you need to add any symbol shortcuts that you need with the **Add** button. By default, there are no symbol shortcuts defined.

When you click on **Add** or **Edit**, the Edit Shortcut dialog is shown, as pictured below:



The Shortcut Editor dialog

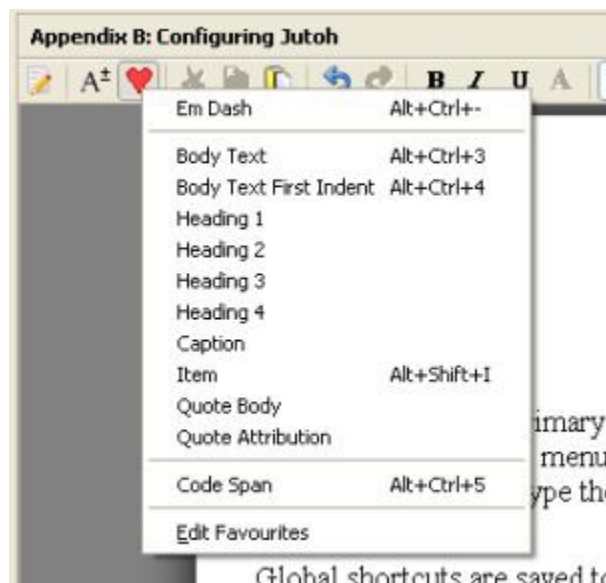
You can specify the primary and/or secondary shortcut key combinations, and whether the shortcut should appear on the **Favourites** menu (see below). If the shortcut is a symbol shortcut, for inserting one or more text characters, you can also type the text in the **Symbol** field, or select it from a grid of Unicode symbols by clicking **Insert Symbol**.

Global shortcuts are saved to the file shortcuts.dat in the application settings folder (see Jutoh Files for details), so another way of resetting command shortcuts is to delete this file before running Jutoh.

Favourites

Another way to save time is to enable the **Favourites** button on the editor toolbar (right-click on the toolbar and select **Customise**, or use the **View | Customise Toolbars** command and select the Text Section toolbar).

Now click on the **Favourites** ♥ button; you will be asked if you want to edit the favourites. If you answer Yes, you will be shown the shortcut editor. Select a command, style or symbol that you want to be on your list of favourites, and check the **Favourite** control. Press **OK** to dismiss all dialogs and click on **Favourites** ♥. You will now be shown a menu containing the commands, styles and symbols you chose, as follows:

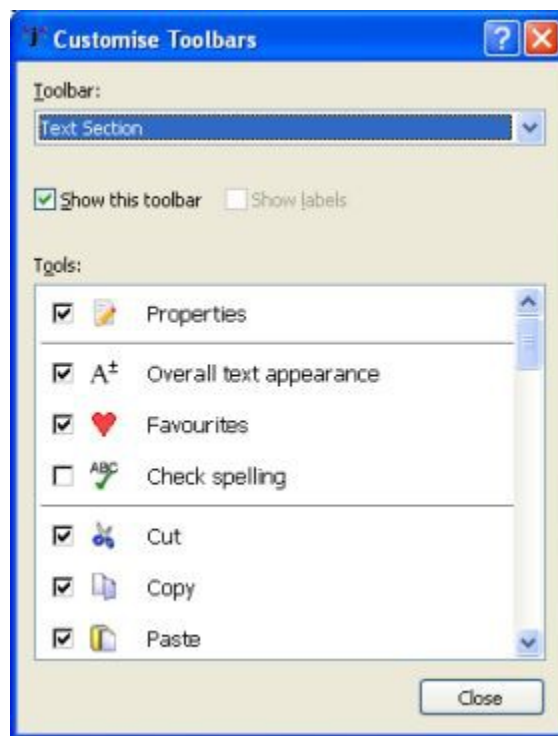


The Favourites menu

In this example, you can see that we have a symbol shortcut (Em Dash), several paragraph styles, and a character style (Code Span). Any primary shortcuts are displayed next to the item names.

Customising toolbars

Most of the toolbars in Jutoh can be customised; that is, tools can be switched on or off, and in the case of the main toolbar, the text labels can be switched on or off. You can use **View | Customise Toolbars** to view the Customise Toolbar dialog:



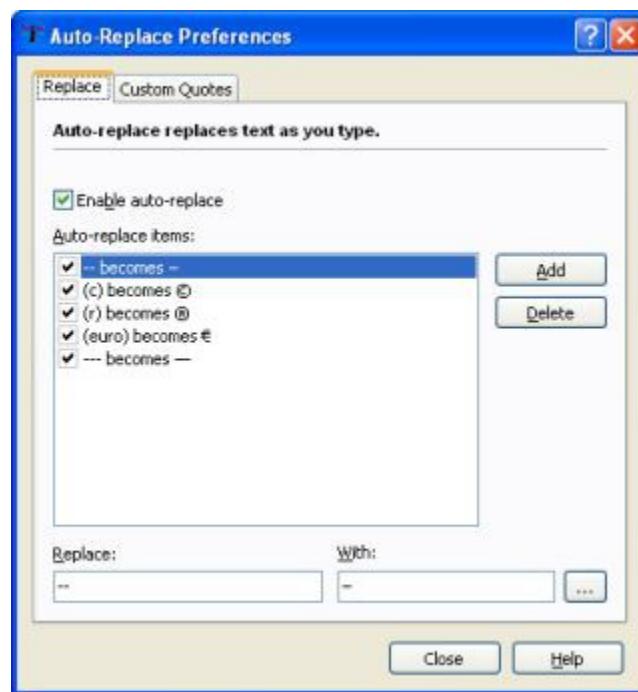
The Customise Toolbars dialog

Select the toolbar to customise using the drop-down **Toolbar** control. Then click on the checkbox next to each tool name to enable or disable that tool. You can't change the ordering of tools; separators will be removed automatically if a whole group of tools is disabled.

Another way of showing the Customise Toolbars dialog is to right-click on a toolbar and select **Customise** from the context menu. It will select the appropriate toolbar.

Customising auto-replace

Auto-replace allows you to type text and have it replaced by a different symbol or sequence of symbols. To edit auto-replace items, use the **View | Auto-Replace Preferences** command. The Auto-Replace Preferences dialog has two tabs: one called **Replace** with general textual replacement options, and one called **Custom Quotes**.

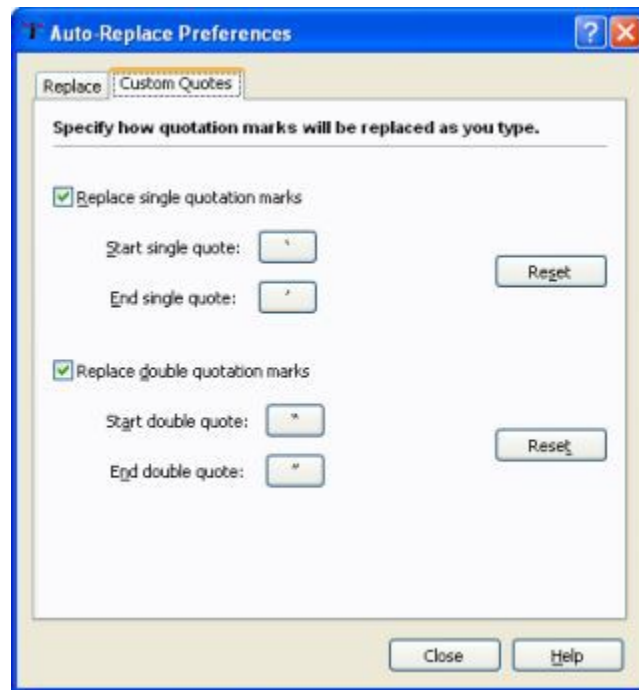


The Auto-Replace Preferences dialog

To add an auto-replace item, click **Add** and enter the **Replace** and **With** text. Click on the “...” button to use a symbol selection dialog that shows all the possible Unicode characters.

Auto-replace works when you have entered the target text and then a space (or punctuation followed by a space). Jutoh will search back and see whether the text matches any in its list, and if so, replaces it with the appropriate text. For example, typing (c) will insert the symbol ©.

Replacing quotation marks is a special case and has its own tab:

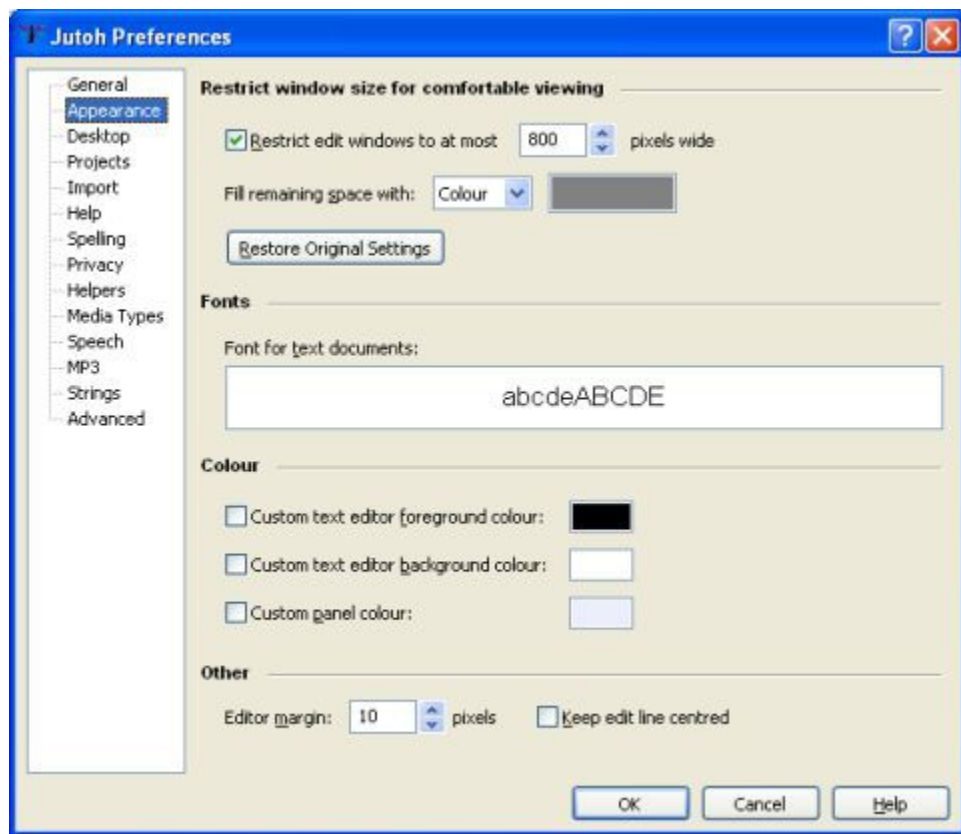


The Custom Quotes tab

This dialog specifies how single quotation marks and double quotation marks are replaced when you type the standard quotation marks with the keyboard. Jutoh recognises whether the mark is at the start or end of the text. Click on the buttons to select the symbol that will be used in each case, using the symbol selection dialog. You can use the **Reset** buttons to revert the values to their original settings.

Appearance options

You can adjust various settings relating to Jutoh's appearance using the **Appearance** page in the Preferences dialog:



The Appearance Preferences page

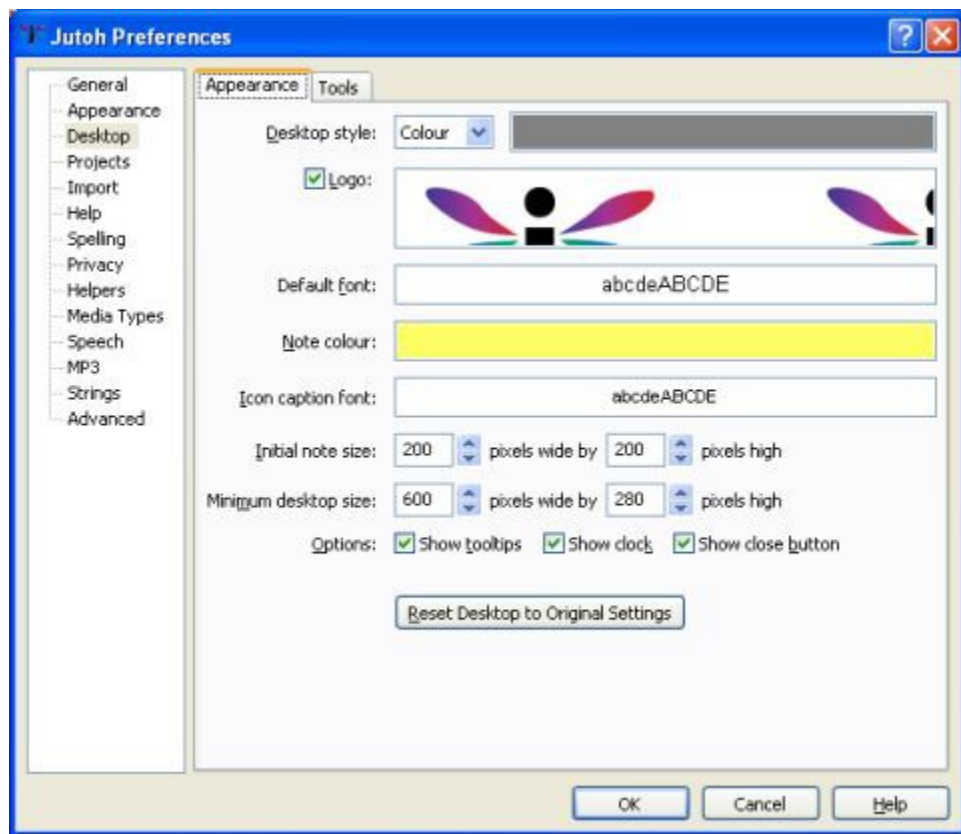
Here, you can:

- set the maximum width of the editing window;
- set the colour of the editor surrounding background;
- set the text size for the editing (this will not affect the generated ebook text size);
- set the text editor text and background colours;
- set the margins around the text editor (to give you more ‘breathing space’);
- opt to centre the text cursor vertically as you move around the text.

These settings are global, so they apply to all styled text editors in Jutoh, in all projects on this machine.

Desktop options

The Jutoh desktop (accessed via the **Desktop** tab near the bottom of the Jutoh window) is a handy place to store third-party tool shortcuts, links to documents, and ‘sticky’ notes. You might not use it all, but if you do, you can tailor various aspects about it from the **Desktop** page in the Preferences dialog:



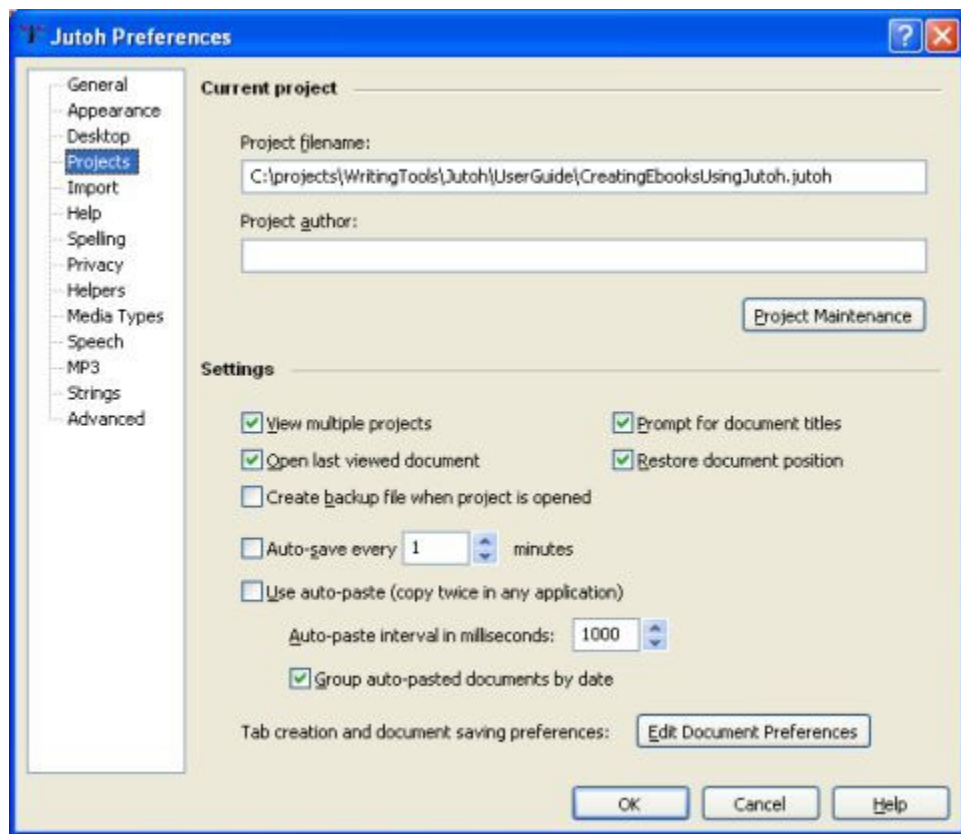
The Desktop Preferences page

You can change the desktop background, the logo displayed on it, the font and colour used for ‘sticky’ notes, and various other settings. You can also change the settings back to the original defaults.

There is a **Tool** tab in this page that lets you add and remove tools that will be placed on the desktop (and also on the **Tools** menu on the Jutoh menubar). For more details, click on the **Help** button on the Preferences dialog..

Project options

You can change behaviour relating to project handling (not per-project settings: that’s the job of the Project Properties dialog) using the **Projects** tab in the Preferences dialog.



The Projects Preferences page

If you want to allow Jutoh to have several projects open simultaneously, rather than close the previous project when opening another, check **View multiple projects**.

If you want Jutoh to create a backup before editing a project, check **Create backup file when project is opened**.

You can also change auto-save frequency, and whether to auto-paste information into a new document when copying twice in quick succession in another application (Windows-only).

Using **Edit Document Preferences**, you can change the auto-saving and tab creation behaviour of classes of document. For example, you can specify that book section documents should reuse a single tab instead of spawning a new tab for each document. It's fairly unlikely you'll want to change these settings.

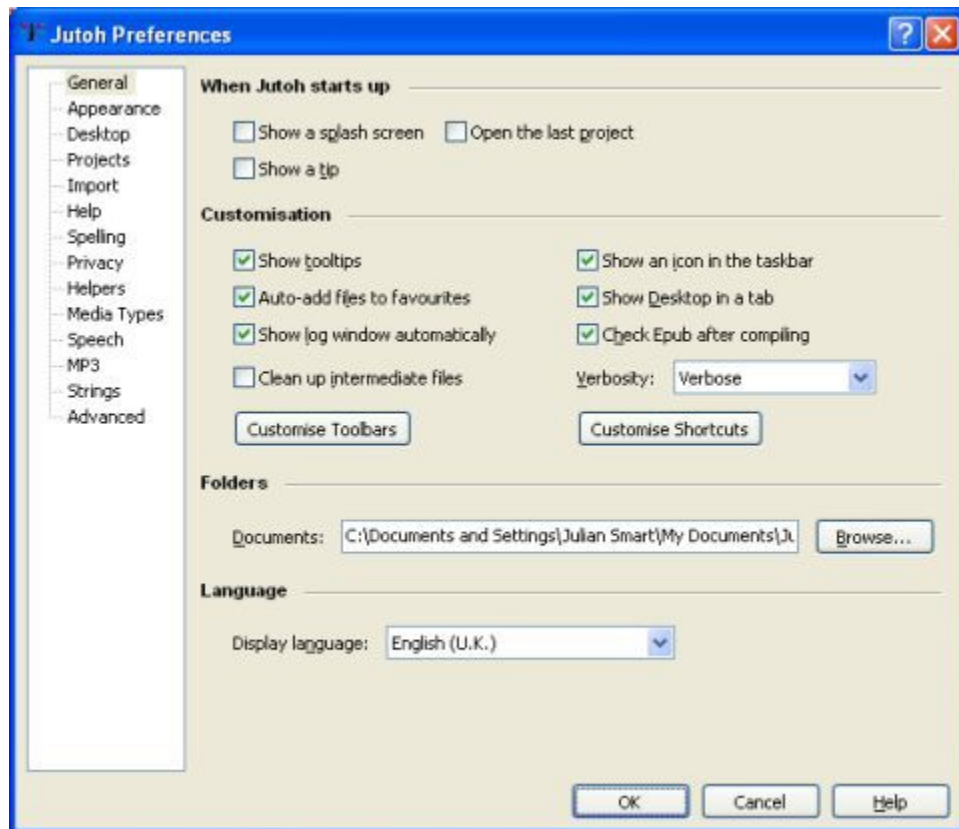
The **Project Maintenance** button shows a dialog for cleaning up a project. In this dialog, you can:

- Delete troublesome documents without opening them.
- Delete individual records in the project database, in particular 'orphan' documents that are no longer in the project index (this occasionally happens when Jutoh is closed unexpectedly).
- Compact a project that has been fragmented by much document creation and deletion.

It is recommended that you back up your project before doing project maintenance.

Miscellaneous options

The **General** page in the Preferences dialog has a variety of useful settings for changing the way Jutoh behaves:



The General Preferences pages

Here, you can switch off the opening ‘splash screen’ and/or the startup tips, and elect whether to automatically open the last project when starting Jutoh.

There are further controls for showing tooltips, enabling the Jutoh Desktop, and whether to add projects to the Favourites window automatically. The **Verbosity** control lets you choose how much text gets written to the Log window, and **Show log window automatically** specifies whether to show the Log window as soon as you start compiling a project – handy if you want to hide the Log window when you’re editing.

An option you may well want to enable is **Check Epub after compiling**, so you can guarantee you’ve always checked your Epubs with EpubCheck without having to remember to press **Check**.

You can specify the default document folder, and finally you can choose the user interface display language – currently just English, but this will be expanded in future as people contribute translations.

Change Log

Version 1.8, March 4th 2014

- Added new configuration options *Cover image width*, *Identifier* and *Mirror pages*.
- Replaced screenshot for Table of Contents properties and wizard pages and added screenshots for index and footnote options.
- Updated the section on creating Kindle books.

Version 1.7, July 24th 2013

- Added new configuration options *Mobipocket anchor optimization*, *Pre-compile command*, *Post-compile command*.

Version 1.6, May 15th 2013

- Added new configuration options *Styles suppressing page break before*, *Styles suppressing page break after*, *Character substitutions*, *Character style substitutions*, *Orphan control for single-letter words*, *Emulate small caps*, *Dimension units*, *Font size units*, *Generate colour*, *Generate iBooks XML*, *Widow control*, *Orphan control*, *Namespaces*.
- Removed references to the obsolete preflight checker, which has been removed from Jutoh since version 1.67.

Version 1.5, January 18th 2013

- Added a description of the formatting palette to the Editing and Formatting Content chapter.
- Added a description of how to fix the “unmanifested content” Lulu error, to the Troubleshooting chapter.
- Updated screenshots to reflect UI changes.
- Mentioned Jutoh Plus in the Introduction, in relation to custom HTML provision.
- Updated the Glossary.
- Elaborated on ‘viewer applications’ in Configuring Jutoh.
- Documented the new configuration options *Generate colour*, *Generate generic font names*, *Character substitutions*, *Orphan control for single-letter words*, *Custom paper width*, *Custom paper height*, *Dots per inch*, *Extra metadata*, *Include media documents matching tags*, *Exclude media documents matching tags*.
- Added some more tips to the troubleshooting chapter.

Version 1.4, August 22nd 2012

- Added notes about using SVG images to Working with Pictures.
- Added references to DOCX import where ODT import is mentioned.

- Added a troubleshooting tip for black text on a black background.
- Added a description of the font dialog in Editing and Formatting Content.
- Added a description of ‘continuation’ list paragraphs in Editing and Formatting Content.
- Added iBooks section to Troubleshooting Your Book.
- Added a description for the new configuration option *Cover image format*.

Version 1.3, July 18th 2012

- Documented the **Insert Non-Breaking Hyphen** and **Insert Non-Breaking Space** commands in the Editing and Formatting Content chapter.
- Documented the new configuration options *Convert non-breaking hyphen to hyphen*, *Enable fixed layout*, *Page width*, *Page height*, *Add thin spaces around punctuation*, and *Thin space entity*.
- Extended the section on fonts in Editing and Formatting Content, documenting the *Font Substitution* string table.
- Enhanced the section on embedding fonts in Advanced Topics.
- Added a section *Creating fixed layout ebooks* in Advanced Topics.
- Mentioned the new template facility in the Getting Started and Importing Files chapters.
- Fixed an incorrect reference to the **View** menu when mentioning **Check for Updates** in Appendix A.

Version 1.2, March 15th 2012

- Documented the **Import basic CSS from HTML/Epub** option in the New Project Wizard.
- Updated the mentions of KF8.
- Added a description of the new **Type** and **See** fields in the index entry dialog.
- Added descriptions for the new configuration options *Epub version*, *Orientation lock*, *Optimize style sheet*, *Abbreviate style names*, *Use heading text size*, *Visible URLs*, *Use outline levels*, *Styles suppressing hyphenation*, *HTML top margin*, *HTML bottom margin*, and *Convert horizontal bar to em dash*.
- Documented the search box and reordering buttons in the Configurations page.
- Changed erroneous 200Kb section size limit to 300Kb.
- Clarified the effect of width and height settings for various formats.
- Expanded the section on creating PDF documents.
- Corrected typos kindly pointed out by Jim Kerwin.

Version 1.1, November 8th 2011

- Removed text asserting that hanging indent is not supported in Mobipocket, since this is fixed in Jutoh 1.39.

- Fixed text describing how to insert page numbers in OpenOffice.org/LibreOffice, noting that the **Format | Title Page** command is only available in LibreOffice.
- Documented the configuration option *Use relative dimensions*, new in Jutoh 1.39.

Version 1.0, October 26th 2011

- First edition.